Prices of Engineering Materials

PRICE CHANGES AND THE BUSINESS OUTLOOK

Improvement in general business and contracting is confined to a few localities while from many quarters come authentic reports that business is more unsatisfactory than at any corresponding time in several years. Building activity is less, iron production smaller, consumption of metals not so large as a year ago, fewer men are employed, and fewer freight cars are in use. Against these unfavorable factors is that knowledge that there is more State and municipal work in progress than a year ago and that a plethora of idle funds awaits employment. Prospects for excellent business later are particularly bright when viewed from the agricultural side. Never has there been such an excellent outlook for wheat. Other crops will be large and farmers are undoubtedly more prosperous than ever before. The prosperity of the farmer is a good foundation upon which to build an active business season for all kinds of trade.

The inability of a dry-goods distributing house of international reputation to meet its obligations is of deep significance. Mindful of the fact that New York has ceased to be a dry-goods jobbing center, and perhaps that kind of business will have to make way for more modern methods, this failure indicates clearly that merchants scattered in the smaller towns in the West and the Southwest have been unable to make collections with sufficient regularity to pay the wholesaler. That it did not have a more serious effect is a strong testimonial to the stability of business.

It should be distinctly understood that present conditions are the result of commercial ad not financial ills. The abundance of funds is recognized in almost every section of the country, and exports of gold although frequent have caused no disturbance in monitary conditions. The trouble is clearly a lack of business.

Contract work has improved. This applies almost wholly to municipal, county and state work, and the reason for it is not hard to find. For the last two or three years municipalities have been unable to sell their bonds at anything like a satisfactory rate, and now funds are plentiful, work has been started. Then, too, there has been a more or less general awakening of civic pride in many of the older cities through the country. Albany, N. Y., may be pointed to as an example of this. Moreover, in some cities at least an effort has been made to advance construction work this year so that employment could be given to many who would otherwise be idle.

Prices in important lines continues to decline steadily. A quotation of $1.05 Pittsbugrh, for plates has been recorded. The index figures issued by the government show a lowering in the cost of living and even a well known maker of motor cars cut the price of this luxury $200.

The unfavorable conditions in the iron trade are attracting more attention than in any other line. Production continues to decline, unfilled orders of the United States Steel Corporation are less and less each month, and prices in every line are the lowest in years and while stocks continue to accumulate. Contracts for the cast-iron segments for the East River tubes call for about 80,000 tons which went at an unusually low price, something under $27 a ton, or a price close to the figures which were made for the Hudson tube at the time of severe business depression.

Labor is easy to obtain; in fact, there is no difficulty in obtaining any number of workers for outside construction at $1.50 a day for ordinary work. Immigration figures also tell a story. For the first five months of the year the number of steerage passengers coming into the country was 180,000 less than during the corresponding time last year.

Cement manufacturers are maintaining a price which is equivalent to about 90c. per bbl. in bulk at the mill. The mills are working to about 50 per cent. of their capacity.

Prices of metals continue to decline. Copper is below 14c., and tin is sold around the lowest prices reached in the last three years. Stocks of copper are accumulating; the same is true of tin.

The decline in crude oil has not been so spectacular as it was two months ago, but ther has been much competition and in the East some particularly low prices have been named to the retail trade. Some garages sell gasoline as low as 9c. per gallon.

LABOR

Contractors can get all the men they want for $1.65 a day, and in many places $1.50. Most laborers on state road work are paid $1.50 for grading and $1.65 for quarry work. Enforced vacations are the rule in a number of lines. Many of the leading railways have reduced forces 10% by compelling all employees from the president down to take a three-days' vacation each month. The Ford plant is granting a month's vacation, without pay, and this has been extended to a number of other factories. Skilled labor is in somewhat better demand, but there is a drastic weeding out of inefficient help in all quarters. The Westinghouse strike in Pittsburgh is the most serious labor disturbance reported this month. It seems unlikely that there will be any compromise to the Union as such. Business in the electrical line has shown a distinct falling off.

Imigration statistics for the first five months of the year indicate clearly that there is less incentive for contract laborers to come to this country. For this fiscal year to June 12 and incoming steerage passengers numbered 437,000 compared with 620,000 in the corresponding period last year. This was a falling off of 183,000. At the same time the steerage passengers leaving this country in 1914 numbered 229,000 compared with 159,000 at the same time last year, showing more departures by 70,000 this year than last, and making a difference of 250,000 in the number of laborers of this class.

CRUSHED STONE, SAND AND GRAVEL

Crushed Stone—Sellers of crushed stone in the New York market are of unanimous opinion that business has not been so unsatisfactory in a number of years. Indeed when the capacity of the stone-crushing plants is taken into consideration it is difficult to find a time when there was so little business ruling. Some more business has been placed in June than in May, but only a little more and it is doubtful if for the first six months of the year there has been 50% as much stone delivered in New York as there was last year in the same time. Prices are steady at 90c. to $1 for 1½-in. stone, and 95c. to $1.10 for ¾-in. stone. These quotations are for full cargo lots of 500 cu.yd. delivered alongside of dock New York or Brooklyn.

Sand and Gravel—Business is very light. There is practically no demand for gravel except subway gravel and little sand is moving. Gravel sells at 90c. for 1½ in., while special gravel for subway specifications is quoted at $1.15.

Sand sells at 50c. per cu.yd.

The above quotations are for full cargo lots of 500 cu.yd. delivered alongside of dock, New York. In Boston gravel sells at 35c. per cu.yd. at quarry 25 mi. out, the freight rate to Boston being 40c.

CEMENT, LIME AND BRICK

Portland Cement—The most surprising thing in the cement trade is that prices have been maintained. There is of course, some cutting, but there always is at such a period when the smaller mills are out for business. In some cases the cut has amounted to more than 10c. per bbl., but in general prices are firm. Most of the business now being placed is for road work in various states. The leading manufacturers of cement in the Lehigh Valley district are maintaining their position with a great deal of stubbornness and refusing to make concessions of any kind, this in spite of the fact that they do not seem to be running more than 50% of capacity. In the West business is slightly better, but not as good as it was hoped early in the year.

Quotations are unchanged at $1.58 per bbl. for delivery within lighterage limits New York. This is equivalent to $1.46 in Jersey City and 95c. per bbl. in bulk at the mill. Quotations given below do not include the allowance of 40c. for baks returned. They are as follows per bbl. f.o.b. the points named, not including package:

Boston	$1.32	Chicago	$1.15
Cleveland	1.30	Detroit	1.19
Duluth	1.38	Jersey City	1.06
Minneapolis	1.35	New York	1.18
Pittsburgh	1.10	St. Paul	1.35

Brick—Within the last week there has been improvement in the business situation and brick are in much better demand. Prices are steady at $5.75 per M. in New York. From yards in Newark, $7.25 is demanded.

Lime—Business is quiet, but prices are unchanged at 97c. per bbl. for state common, 200 lb. net; $1.37 for 300 lb. "Star"; $1.55 for 300 lb. finishing; $1.10 for 200 lb. finishing and $1.72 for 350 lb.

Plaster Blocks—Prices are without change, and the market is fairly active, quotations being as follows:

	Weight, per sq.ft., lb.	Price, per sq.ft., cents
2-in.	7	6
3-in.	8½	6½
4-in.	11	7¼

These blocks are made 32 in. long by 13⅓ in. wide, containing 3 sq.ft. of surface. The 2-in. blocks are solid, but the others are hollow.

IRON AND STEEL

Pig Iron—Sales of pig iron have been limited, and prices have declined to still lower levels, though stocks do not seem to be accumulating. The Southern iron market has been of more interest than anything else, and some sales in Birmingham have been made as low as $10. The general market there, however, may be quoted at $10.25@10.50. In the North there has been very little new buying. The chief feature of interest was 80,000 tons of tunnel segment for the two East River tubes in New York, and although no quotations or authentic figures have been given out, it was understood that the price was below $27 per ton for castings delivered in New York, machined, and ready to be placed. This is an unusually low quotation, and almost duplicates the low figure at which the Hudson Tunnel segments were placed a number of years ago, when labor and materials were quoted at less than they are today. The unfilled orders of the United States Steel Corporation continue to decline, and on May 31 were slightly less than 4,00,000 tons.

Quotations for lots of 100 tons or over, and the prices named, are as follows: Cincinnati Southern Foundry No. 2, $13.50@14; Northern Foundry No. 2, $14.75@15.25; Northern Foundry No. 3, $14.50@14.75; in New York, Northern Foundry No. 1, $14.75@15; Northern Foundry No. 2X, $14.50@14.75; and Southern Foundry No. 2, $14.75@15; in Chicago, Northern Foundry No. 2, $13.75@14.25, and Northern Foundry No. 1, $13.50@14. In Pittsburgh, besemer is $14.90 and basic $13.90. These quotations include the 90c. freight rate from the valley to Pittsburgh. In Birmingham, Southern Foundry No. 2 is quoted at $10.25@10.50, but there some few sales were made as low as $10.

Steel Rails—A few small orders have been released by the railways. The St. Louis & San Francisco bought 32,000 tons from the southern mill, the Boston & Maine purchased 500 tons, the Pennsylvania R.R., 5000 tons; 10,000 tons have been taken for shipment to Asia, and there is an inquiry in the market for 15,000 tons for South America.

The Pennsylvania R.R. called for bids on approximately 100,000 tons of rails. The company has already ordered 37,000 tons. In this inquiry 15,000 tons will weigh 120 lb. per yard. The remainder of the order is for 100-lb. sections and the specifications are approximately the same as last year's.

Quotations are as follows for lots of 500 tons or over, but when only a few tons are purchased somewhat higher prices are demanded: Standard sections of bessemer rails, $28; openhearth rails, $30. These quotations being f.o.b. Pittsburgh. Girder rails in 30-ft. lengths are $36.40 per gross ton, and in 60-ft. lengths, $38.40, both f.o.b. New York. Other quotations f.o.b. Pittsburgh for large lots are as follows: 25 to 45 lb. sections, 1.25c. per lb.; 16 to 25 lb. sections, 1.30c.; 12 and 14 lb., 1.35c.; 8 and 10 lb., 1.40c. all in carload lots f.o.b. Pittsburgh. In New York, relaying rails are quoted at $21.50 to $22, and in Chicago, $24.

Track Supplies—Purchases are again smaller and the mills are not running any more than 50% of capacity. Some sales have been made of standard sizes of spikes at $1.30, and small spikes have been sold at $1.50, f.o.b. Pittsburgh. In Chicago, standard spikes, 1.50 to $1.55 track bolts with square nuts, $1.90 to $2, and angle bars, $1.50. All these prices are per 100 lb. Tie plates sold as low as $25.50 to $26 f.o.b. mill. This price is per net ton. The extra on railroad and boat spikes are unchanged, as follows:

Railroad spikes	Cents
3, 3½, 4, 4½ and 5x½	Extra .10
3½, 4 and 4x⅝	Extra .20
3, 3½, 4 and 4½x⅝	Extra .30
2½x⅝	Extra .40
2½, 3 and 3½x⅝	Extra .60

Structural Materials—More orders were placed in June than in May. There were a few large contracts, but a great many small ones, and although these do not foot up to a very large tonnage it is recognized that a great deal of fabrication work was called for. Many of them were small jobs and light sections. The contract for the William Penn Hotel in Pittsburgh, involving about 8000 tons, was placed, and a few small railway bridges. The project for a new Ohio River bridge has also been announced. Some subway work for New York came out, but not any large quantity.

Prices remain unchanged from last month, at 1.15c., f.o.b. Pittsburgh. This includes I-beams 3 to 15 in., channels 3 to 15 in., angles 3 to 6 in., and tees 3 in. and over. Other quotations are as follows: I-beams over 18 in., H-beams over 18 in., channels over 16 in., and angles over 6 in., 1.25c.; tees, 1.20c.; deck beams and bulb angles, 1.45c.; hand-rail tees, 1.90c. Cutting to specified lengths is charged for at the following rates: Under 3 ft. to 2 ft., inclusive, 25c. per 100 lb.; 2 ft. to 1 ft., inclusive, 50c.; less than 1 ft., $1.55. No charge is made for cutting to specified lengths over 3 ft.

The Unfilled Tonnage of the United States Steel Corporation for the month of May, 1914, amounts to 3,998,160 tons. This compares with a similar period in 1911, 1912, 1913, as follows:

May 31, 1911	3,113,187
May 31, 1912	5,750,983
May 31, 1913	6,435,322

For the preceding months of 1914 the tonnage per month is as follows:

Jan. 31	4,613,680
Feb. 28	5,026,440
Mar. 31	4,653,825
Apr. 30	4,277,068

Plates—As low as 1.05c. has been done on attractive orders were placed. The car business has been somewhat more active. The Illinois Central has purchased 2000 cars and the Merchants Dispatch Fast Freight line will build 2000 cars in its own shops, the Erie has an inquiry in the market for 800 gondolas, and the Pittsburgh and Lake Erie has an inquiry out for 1000 hopper cars. There is also some pipe-line work springing up. The plate mills are operating to about 60% of capacity.

Quotations are low at 1.05c., base Pittsburgh. This is for gages ¼ in. and over; for gages under ¼ in., to and including ⅛ in., 1.15c. is demanded. In Chicago mill deliveries are 1.25@1.30c., and plates from store are 1.65@1.75c. In New York mill shipments are 1.31c.

Cast-Iron Pipe—The low prices have brought considerable business. A great deal of this comes from private water companies who are quick to take advantage of low cost, but there is a great deal of work developing in municipal water supplies. This is coming from all parts of the country and is a most encouraging sign. Prices seem to be about as low as they will go, unless there is some drastic reorganization than is now thought possible. Stocks are not specially large, but pipe foundries are not operating to anyways near full capacity.

Quotations are unchanged as follows:

Chicago, 4 in., $26; 6 to 12 in., $24; 16 in. and upward, $23.50.

Birmingham, Ala., 4 in., $20.50; 6 in. and upward, $18.50.

New York, N. Y., 6 in. and larger, $20.50 to $21.

These prices are per net ton of 2000 lb.

Gas pipe is held $1 per ton higher in all markets.

Pipe—Several large contracts have been placed during the month. These include 118 mi. of 18-in. and 57 mi. of 10-in. pipe for the Valley Pipe Line Co., of California. 40 mi. of 16-in. pipe for the Logan Natural Gas Co. A foreign inquiry has also developed calling for approximately 450 mi. of pipe for shipment to Persia. It is doubtful, however, if American mills can secure this order. Orders during June showed a gratifying increase compared with those for May, and prices are well sustained, discounts being unchanged as follows:

	Black	Galvanized
¾- to 2-in. steel butt welded	80%	71½%
2½- to 6-in. steel lap welded	79%	70½%
7- to 12-in. steel lap welded	76%	65½%

At these discounts the net prices of pipe per foot Pittsburgh are as follows:

Diameter	Cents Black	Cents Galvanized	Diameter	Cents Black	Cents Galvanized
¾-in.	2.30	3.27	5-in.	31.00	43.00
1-in.	3.40	4.85	6-in.	42.00	58.00
1¼-in.	4.60	6.50	7-in.	57.00	80.00
1½-in.	5.50	7.80	8-in.	60.00	86.00
2-in.	7.40	10.50	9-in.	84.50	$1.20
2½-in.	12.20	17.30	10-in.	99.00	$1.40
3-in.	16.00	22.60	11-in.	$1.12	$1.60
4-in.	22.90	32.30	12-in.	$1.22	$1.75

Sheets—Business has shown a distinct improvement in the last week. Several makers report that inquiries received in the last fortnight have been the heaviest in several months. Mills are still operating at about 60% of capacity which is an improvement compared with last month. Prices are exceedingly low, and the following quotations are current for large lots Pittsburgh, and small lots from store New York.

The following quotations are current for large lots in Pittsburgh and small lots from store, New York:

Nos.	Cents per pound—Carload lots, Pittsburgh Black	Galv.	Small lots, Chicago Black	Galv.
10 and 11	1.55	1.85	2.15	2.70
12	1.55	1.95	2.20	2.75
13 and 14	1.60	1.95	2.25	2.75
15 and 16	1.65	2.10	2.35	2.85
17 to 21	1.70	2.25	2.50	3.15
22 and 24	1.70	2.40	2.55	3.30
25 and 26	1.75	2.50	2.55	3.40
27	1.80	2.65	2.60	3.55
28	1.85	2.85	2.60	3.75

Old Material—Prices show little change and there are perhaps as many advances reported as declines. The market appears to be better in Chicago, but in New York the inquiry is very light and sellers are not disposed to push their supplies on the market. It looks as though prices are very near bottom. Quotations per gross ton New York and vicinity are as follows:

Heavy-melting steel scrap	$8.00 to $8.50
Pipes and flues	7.50 to 8.00
No. 1 railroad wrought	10.00 to 10.50
Stove plate	7.50 to 8.00
Malleable cast	7.25 to 7.75
No. 1 machinery cast	10.25 to 10.75
No. 1 yard wrought long	8.50 to 9.00
Wougrht turnings	5.25 to 5.50

In Chicago dealers are tempted to buy scrap because of the exceedingly low price, but many of them have all the stock they can comfortably carry. Railroad offerings are not large, but they continue to steadily come on the market. For delivery in Chicago and vicinity quotations are as follows:

	Per net ton
Heavy-melting steel scrap	$9.75 to $10.00
No. 1 railroad wrought	9.00 to 9.25
No. 2 railroad wrought	8.75 to 9.00
No. 1 cast scrap	9.75 to 10.25
Pipes and flues	6.75 to 7.25
Agricultural malleable	8.00 to 8.50
Railroad malleable	9.00 to 9.25

In Pittsburgh there is very little inquiry, although turnings have moved up slightly and there seems to be a very fair demand.

Quotations per gross ton are as follows:

Heavy-melting steel scrap	$12.00 to $12.25
Re-rolling rails	12.75 to 13.00
No. 1 foundry cast	11.50 to 11.75
Old car wheels	11.25 to 11.50
Machine shop turnings	7.25 to 8.00
Railroad malleable	11.00 to 11.25

Coke—The market is not as uncertain as a month ago. Some high grade coke has been recently closed on contract for last half delivery at $2 per net ton at oven, and a sale of 12,000 tons per month went at $1.85 to $1.90 per net ton at oven. For prompt shipment $1.75 is sometimes done, but in general for contracts $1.85 to $2 per net ton is the rule and business seems to be slightly better. For 72-hr. foundry coke, $2.30 to $2.50 per net ton at oven is named, which is **10c. a ton lower on the inside price than a month ago.** The output shows a further falling off. For the week ending June 13 it was 259,000 tons, but the low level was reached in the preceding week when 243,000 tons was manufactured.

Rivets—Prices show no change. Cone head boiler rivets are 1.70 to 1.75c. and structural rivets are 1.60 to 1.65c. These prices are in carload lots f.o.b. Pittsburgh.

Piling Steel Sheet—Prices are steady and unchanged at 1.60c. Pittsburgh. The demand is good, compared with other lines of steel products.

Freight Rates—The freight rates on finished-steel products from the Pittsburgh District, including plates, structural shapes, merchant steel and iron bars, pipe fittings, plain and galvanized wire, nails, rivets, spikes and bolts (in kegs) black sheets (except planished), chain, etc., are as follows, in cents per 100 lb.: Albany, 16; Buffalo, 11; Boston, 18; Baltimore, 14½; Canandaigua, 13½; Cleveland, 10; Columbus, 12; Cincinnati, 15; Chicago, 18; Denver, Colo., 85½; Harrisburg, 14½; Louisville, 18; New York, 16; Norfolk, 20; Philadelphia, 15; Rochester, 11½; Richmond, 20; Scranton, 15; St. Louis, 23; Washington, 14½.

Steel Shapes—Some lines show an improvement but business is still dull. Large consumers are more willing to buy in carload lots for they feel the bottom has been reached and this reduces the volume of business that the jobber has. From warehouse New York prices are as follows:

	Cents Per lb.
Refined iron.	
1 to 1⅞ in., round and square	1.80
1½ to 4 in. x ⅜ to 1 in.	1.80
1½ to 4 in. x ¼ to ⅝ in.	2.00
Norway bars	3.20
Burdens bar iron	3.15
Soft steel:	
¾ to 3 in., round and square	1.80
1 to 6 in. x ⅜ to 1 in.	1.80
1 to 6 in. x ¼ and ⅝ in.	1.95
Rods—⅝ and ½ in.	1.90
Bands—1½ to 6x⅛ in. to No. 8	2.10
Beams and channels—3 to 15 in.	1.85
Angles:	
3 in. x ¼ in. and larger	1.85
3 in. x ⅜ in. and ⅛ in.	2.30
1½ to 2½ in. x ⅛ in.	2.05
1½ to 2¾ in. x ⅜ in. and thicker	1.95
1 to 1¼ in. x ⅛ in.	2.05
1 to 1¼ in. x ⅛ in.	2.10
1½ to 2½ x ¼ in.	2.00
1½ to 2½ x ⅜ in.	2.10
3 in. and larger	1.90

Spiral Riveted Pipe—Prices are without change. The following quotations are f.o.b. factory, freight equalized with New York, being figured at a discount of 50, 10 and 10% from list. These are for orders amounting to approximately $250. For large orders, prices are cheaper by 12½ to 20%.

Diameter in in.	*Thickness Birmingham wire gage	Net price per 100 ft. With bolted joints complete: Plain	Asphalted	Galvanized
4	18	$19.76	$21.48	$30.74
5	18	23.40	23.70	37.14
6	16	33.05	35.76	49.73
7	16	37.58	40.76	56.82
8	16	43.17	46.80	65.00
9	16	50.06	50.10	74.22
10	14	66.42	71.08	96.15
11	14	71.20	76.57	102.24
12	14	83.75	89.15	118.30
13	14	89.67	96.55	127.98
14	14	99.14	105.51	138.85
15	14	108.05	114.89	151.92
16	14	117.53	124.82	166.58
18	12	167.43	175.95	226.44
20	12	183.79	193.30	248.39
22	12	200.48	210.64	269.21
24	12	219.92	231.07	293.99
26	10	280.20	292.41	370.78
28	10	301.32	314.89	395.37
30	10	324.81	399.15	430.64

*Made in both lighter and heavier gages at corresponding differences in price.

Chain—Prices are steady and without change, as follows. These prices are per 100 lb., f.o.b. Pittsburgh:

⅜ in.	$7.50	½ and ⅝ in.	3.00
¼ in.	4.95	⅝ and ¾ in.	2.90
⅜ in.	3.95	¾ and ⅞ in.	2.80
⅝ in.	3.40	⅞ and 1 in.	2.70
½ in.	3.20	1 to 1¼ in.	2.60

EXTRAS TO ABOVE LIST PER 100 POUNDS

	For BB	For BBB
⅜-in. and ¼-in.	$1.50	$2.00
⅛-in. and larger	1.25	1.75

Switch Points—The following prices are named f.o.b. mill, for switch points in lots of ten or more pairs: for 60-lb. rail, 10-ft. points, $16.25; 15-ft. points, $17.50; for 70-lb. rail, 10-ft. points, $18; 15-ft. points, $25; for 80-lb. rail, 10-ft. points, $25.50; 15-ft. points, $27.75; for 90-lb. rail, $33.50. All of the above are furnished with three rods, except the 10-ft. points for 60- or 70-lb. rail, which have only two.

Nails—Wire mills are operating at about 50% of capacity. The base quotation in Pittsburgh is $1.50 to $1.55 per keg of 100 lb. In New York wire nails from store are $1.95 to $2, and in Chicago nails are $1.88 to $2.95.

Wire—The mills are operating to 50% of capacity, but this is the dull season. Prices are as follows: Plain barbed wire, $1.35; painted barbed wire to jobbers in carload lots, $1.55; to retailers in carloads, $1.65; galvanized barbed wire, $1.95. These quotations are f.o.b. Pittsburgh. In Chicago plain wire is $1.55, painted barbed wire $1.78, and galvanized barbed wire $2.10. All of these prices are per 100 lb.

REINFORCING MATERIALS

Triangle Mesh—Business is not especially active. Quotations are without change as follows:

PRICE PER 100 SQ.FT.

Style No.	Cross sec. area per ft. width	Plain material: Carload lots	Plain material: Less than car lots and over 10,000 sq.ft.	Galvanized: Carload lots	Galvanized: Less than car lots and over 10,000 sq.ft.
*4	0.102	$1.00	$1.23	$1.12	$1.34
5	0.077	0.80	0.97	0.89	1.00
6	0.058	0.63	0.77	0.71	0.84
*7	0.041	0.49	0.60	0.55	0.66
*23	0.140	1.69	2.05	1.88	2.24
24	0.142	1.46	1.77	1.62	1.93
25	0.124	1.29	1.57	1.43	1.71
*26	0.110	1.17	1.42	1.30	1.55
*27	0.085	0.96	1.17	1.07	1.28
28	0.066	0.80	0.97	0.89	1.06
29	0.049	0.66	0.80	0.73	0.87
31	0.201	2.49	3.02	2.76	3.29
32	0.225	2.16	2.62	2.40	2.86
33	0.196	1.93	2.34	2.14	2.55
34	0.146	1.48	1.80	1.64	1.96
35	0.109	1.117	1.42	1.30	1.55
36	0.075	0.87	1.05	0.97	1.15
38	0.360	3.55	4.30	3.93	4.68
*39	0.325	3.05	3.70	3.38	4.03
40	0.283	2.68	3.25	2.97	3.54
41	0.208	2.05	2.48	2.27	2.70
42	0.151	1.55	1.88	1.72	2.05
*43	0.101	1.10	1.34	1.23	1.46

*This material is made in regular widths of 18, 22, 26, 30, 34, 42, 46, 50, 54 and 58 in. Standard lengths in rolls are 150, 250, 300 and 600 ft.

Bars, Concrete Reinforcing—In some quarters there has been competition which forced prices below the 1.15c. price but in most cases that has been the bottom figure. Business is better than a month ago.

Quotations are as follows:

Size	Cents per pound: Mill shipments Pittsburgh	Warehouse Pittsburgh	Delivered from warehouse New York
¾-in. and larger	1.15	1.65	2.25
⅝-in.	1.20	1.65	2.30
½-in.	1.35	1.95	2.30
⅜-in.	1.45	2.05	2.45
¼-in.	1.75	2.30	2.75

METALS

Copper—Prices have declined almost continuously throughout the month and very little business has been done. It is true that around the 14c. level there was some buying, but this was only in small lots, and consumers have taken no more than an academic interest in the market. For foreign accounts business has been light. The chief trouble with the trade in finished material is, while a fair business is ruling, there is on incentive to do it, because there is no profit. Prices at the end of the month were barely steady at 13.62½c. delivered in 30 days.

Tin—A fair business has been transacted, but it has been spotty—one week good and another week extremely poor. The statistical position of tin would seem to warrant somewhat higher quotations, but a powerful clique is operating in the foreign market and has thus far been successful in keeping prices down. Stocks are good and deliveries during June were about 4000 tons.

Lead—Some of the largest sellers of lead had a most satisfactory business during May; others reported little activity. Prices are undeniably low and there seems to be little doubt that the low quotations has induced some business. In New York lead can be had at 3.90c, and in St. Louis at 3.75c.

Spelter—The market is exceedingly dull and prices are unremunerative to the producer. In fact, producers are in a bad way. Spelter is selling at about 5.05c. New York and 4.95c. St. Louis.

Miscellaneous Metals—All kinds of old metals are in fair demand, but prices are low, and it is sometimes possible to shade even the quotations given below, which are for small lots:

Bismuth	$2.25
Brass tubes, iron-pipe sizes:	
½-in.	.17
¾- to 3-in.	.16
3½-in.	.16
4-in.	.17
Brass rods	.15¼
Brass sheets	.15½
Solder, half and half guaranteed	.21
Zinc sheets	.08½
Manganese bronze rods	.23½
Copper sheets, base	.19
Pig tin (five-ton lots, cash)	.31

Old Metals—Prices are lower and there is very little demand. The following quotations are for small lots delivered to buyer's warehouse:

	Cents
Copper, heavy and crucible	12.00
Copper, heavy and wire	11.75
Copper, light and bottoms	10.25
Brass, heavy	7.75
Brass, light	6.25
Heavy machine composition	10.50
Composition turnings	9.00
Lead, heavy	3.40
Lead, tea	3.15
Zinc scrap	3.50

MILL SUPPLIES

Belting—There is little business, but prices seem fairly well maintained. The discounts on rubber belting are as follows: Best grade, 50%; standard, 60 and 10 and 10%; competitive, 70 and 10%. Leather belting can be had as follows: Extra heavy, 50 and 5%; heavy, 50 and 10 and 5%; medium, 70%.

At the above discounts, the net prices per foot of leather belting are as follows:

LEATHER BELTING PRICES IN CENTS PER FOOT

Size Inches	Extra Heavy	Heavy	Medium
1	11.50	10.10	7.20
1½	16.50	15.20	10.80
2	22.75	21.00	14.40
2½	27.50	26.00	18.00
3	34.25	31.00	24.60
3½	40.00	36.00	25.20
4	45.50	41.00	28.80
5	57.00	51.50	36.00
6	68.50	62.00	43.20
7	80.00	72.00	50 40
8	92.00	82.00	57.60
9	$1.02	93.00	64.80
10	1.14	$1.03	72.00
11	1.25	1.13	79.20
12	1.38	1.24	87.40
14	1.60	1.44	$1.01
16	1.82	1.65	1.16
18	2.05	1.85	1.30
20	2.28	2.05	1.44
22	2.50	2.26	1.59
24	2.74	2.45	1.74
30	3.45	3.10	2.17
36	4.10	3.70	2.60

Chain Belting—Prices continue unchanged. Quotations are as follows: From 3 hp. to 10 hp., 30-in. centers complete with two sprockets, $7@8 per horsepower. From 10 hp. to 25 hp., 36-in. centers complete, $5@6 per horsepower. For 25 hp. to 100 hp., 56-in. centers complete, $4@5 per horsepower. From 100 hp. to 500 hp., 72-in. centers complete, $3@4 per horsepower.

CLAY PRODUCTS

Sewer Pipe—Business continues unusually quiet and the drastic cut of last month failed to bring orders. Prices are not so low as last month, the discount for the smaller sizes being 78% from list instead of 75%. Revised discounts are as follows: 3- to 24-in., 78%; 27- and 30-in., 67%; 33- and 36-in., 62%.

At these discounts the net prices per foot in New York are as follows:

SEWER PIPE, PER FOOT

Size	Delivered N. Y.	Size	Delivered N. Y.
3 in.	$0.055	18 in.	$0.418
4 in.	0.055	20 in.	0.495
5 in.	0.088	22 in.	0.66
6 in.	0.088	24 in.	0.715
8 in.	0.121	27 in.	1.48
10 in.	0.121	30 in.	1.82
12 in.	0.22	33 in.	2.38
15 in.	0.297	36 in.	2.67

Flue Linings—The cut last month evidently was not drastic enough and discounts have again been revised. The new discount is 81% from list. At this discount the net prices per foot, New York delivery are as follows:

	Weight in lb.	Price per ft.		Weight in lb.	Price per ft.
4½x8½-in.	14	$0.067	8½x13-in.	28	$0.124
4½x13-in.	20	0.086	8½x18-in.	45	0.17
4½x18-in.	40	0.19	13x13-in.	38	0.167
7½x7½-in.	15	0.076	13x18-in.	57	0.228
8½x8½-in.	18	0.086	18x18-in.	75	0.36

Hollow Tile—Prices are steady and unchanged as follows, f.o.b. Perth Amboy:

Size	Price per block: Hollow wall tile	Size	Price per block: Interior partition block
4x12x12-in.	$0.06	2x12x12-in.	$0.048
6x12x12-in.	0.084	3x12x12-in.	0.048
8x12x12-in.	0.102	4x12x12-in.	0.052
10x12x12-in.	0.12	6x12x12-in.	0.072
12x12x12-in.	0.15	8x12x12-in.	0.096

OILS AND PAINTS

Petroleum Products—A number of new producers in the Los Angeles district have begun to ship oil. The market for refined products is not so active as earlier in the year and prices continue to decline. For Pennsylvania, second sand and Tiona, $1.75 is quoted, Mercer black and New Castle is $1.30, Corning is $1, Kansas and Oklahoma are unchanged at 75c. California oils are quoted as follows: 21 to 23.9 gravity, 45c.; 24 to 26.9 gravity, 50c.; 27 to 28.9 gravity, 55c.; 29 to 30.9 gravity, 60c., and 31 to 32.9 gravity, 70c.

Refined products are cheaper. Auto naptha is quoted at 18c. in wood and 14c. in steel barrels. Some very low retail prices have been established in northern New Jersey and as little as 9c. per gal. has been quoted. Petroleum is still quoted at 9c.

Linseed Oil—Prices are slightly higher at 54 to 55c. for city raw and 53 to 54c. for out of town raw. Flaxseed in Duluth is 7c. higher than last month at $1.60 per bu.

Spirits Turpentine—Business is light and prices are steady. In New York spirits are quoted at 47c. and in Savannah at 42½c.

Carbolineum—This preservative is sold in lots of one or more barrels at 80c. per gal., f.o.b. New York. In half barrels of 25 and 34 gal. at 85c. per gal., f.o.b. New York.

Paints—Prices are steady in New York as follows: White lead in oil in 100-, 200- and 500-lb. kegs is 7¼@7½c. per lb.; in 25- and 50-lb. kegs, 7¾c. per lb. Red lead and litharge in 100-lb. kegs is 7@7½c. per lb.

Hydrex preservative paint is 75c. per gal. in bbl. lots, New York, N. Y.

Colors in oil are quoted at the following prices per lb.: Lamp black, 12@14c.; Chinese blue, 36@46c.; Prussian blue, 32@36c.; Van Dyke brown, 11@14c.; Chrome green, 12@16c.; raw or burnt Sienna, 12@15c.; raw or burnt Umber, 11@14c.

LUMBER

While the lumber trade has been generally depressed, stocks are low and prices have appeared to be near bottom.

Spruce—In Boston spruce is selling at $23.50 to $24 base, and quotations for frames are as follows: 8 in., $23.50 to $24; 9 in., $24.50 to $25; 10 in., $25.50 to $26; 11 and 12 in., $26.50 to $27.

Hemlock—Prices show no changes and the base quotation New York is $22.50. In Boston hemlock is selling at $22, but the cheapness of other lumber makes it difficult to sell at this quotation.

White Pine—The Boston market is dull. Up to 2 in. sells at $100 to $104; 2½ and 3 in., $110; 4 in., $120. Common sells at $73 to $78 for 1 to 2 in.

Railway Ties—Business is exceedingly dull. Some very tempting quotations have been made, but without success. The market is dull and prices are as follows: for 7x9-in. by 8-ft. 6-in., 80c.; 6x8-in. by 8-ft., 70c.; 6x9-in. by 8-ft., 78c. These are f.o.b. New York.

MISCELLANEOUS

Explosives—Dynamite of the kind generally used by contractors is approximately 11@13c. per lb., f.o.b. factory, in ton lots. Blasting powder, classified as "soda" grade, is sold at $1.20@1.40 per keg of 25 lb. in lots of 10,000 lb.

Exploders, per hundred, are sold at the following prices: 4 ft., $3.60; 6 ft., $4.10; 8 ft., $4.60; 10 ft., $5.10; 12 ft., $5.60; 16 ft., $6.60; 20 ft., $7.50; 25 ft., $9.40; 30 ft., $12; 36 ft., $14.60.

Caps in lots of 10,000 are $7@8 per thousand.

Blasting machines for 10 holes are $12; 25 holes, $20; 50 holes, $40; 100 holes, $60.

Telegraph Wire—The demand for telegraph wire has been fair. For lots of fair size, the wire measured in Birmingham wire gage, prices are as follows: "Extra Best," Nos. 6 to 9, 4⅜c.; Nos. 10 and 11, 4½c.; No. 12, 4⅝c.; No. 14, 5⅛c.; "Best Best" Nos. 6 to 9, 3½c.; Nos. 10 and 11, 3⅝c.; No. 12, 3½c.; No. 14, 4c. Actual freight is allowed from Trenton, N. J., where it does not exceed 25c. per 100 lb.

Lighterage Limits—The free delivery or "Lighterage Limits" in New York City are as follows: In Manhattan, from a point opposite the Fort Lee ferry, south along the Hudson River around the Battery and north along the East and Harlem Rivers to the Jerome Ave. Bridge at 155th St. In New Jersey, south from Fort Lee ferry to Bayonne City, points on the north and east shores at Staten Island, between Bridge Creek (Arlington) and Clifton, both inclusive, and including Elm Park, Erastina and Shooters Island. In Brooklyn, from 69th St., Bay Ridge, north to Pot Cove, Astoria, Long Island City.

Asbestos—Asbestos building felt and sheathing in less than ton lots is 3½c. per lb. for the light, weighing from 6 to 30 lb. per 100 sq.ft.; 4c. per lb. is charged for the heavy, weighing from 45 to 56 lb. per sq.ft.

Millboard is made in standard sheets, 40x40 in., and 41x40 from 2 to 27 lb. per sheet. The net price in 100-lb. lots is 5c. per lb.

Asbestos wood, used for fireproofing, ventilators and smoke jacks, comes in sheets, 36x48 in., 42x48 in. and 42x96 in. The prices per sheet, f.o.b. factory, in New England, are as follows:

Thickness	Weight, pounds	Price	Thickness	Weight, pounds	Price
⅛-in.	1	$0 08	⅝-in.	5	$0.40
3/16-in.	1½	0.12	¾-in.	6	0.44
¼-in.	2	0.16	⅞-in.	7	0.48
5/16-in.	2½	0.20	1-in.	8	0.52
⅜-in.	3	0.28	1¼-in.	10	0.56
7/16-in.	3½	0.28	1½-in.	12	0.64
½-in.	4	0.32	1¾-in.	16	0.72
9/16-in.	4½	0.36	2-in.	16	0.80

Asbestos sheathing, corrugated, sells at 15c., per sq.ft. f.o.b. mill eastern Pennsylvania.

Rubber—Prices continue to decline and stocks are increasing. Up River Para fine can now be had at 60c. per lb. compared with 90c. a year ago and $1.12 two years ago. Up River Para coarse is 40c., Caucho balls are 39c. African rubbers are no cheaper and 48c. is noted. Scrap rubber is slightly lower as follows: Automobile tires 4¾ to 5c. bicycle tires 2¾@3c.; air brake hose 2½ to 3c. and inner tubes 16 to 17c.

The Peebles Paving Brick Co., which has two plants at Portsmouth, O., has purchased a plant at Firebrick, Ky., and will manufacture the Dunn brand of Wire-Cut-Lug Brick.

The Philadelphia office of the Mack Manufacturing Co. is now located in the Lincoln Bldg., directly opposite the City Hall. This office is in charge of R. T. Hutchins.

The France Engineering Co., Second National Bank Bldg., Toledo, O., has been organized by George L. Kirby, Willis R. France and Isaac Haufman to conduct a general engineering practice. The company would like to receive catalogs bearing on construction work.

Construction News

★ Denotes work advertised in ENGINEERING NEWS.
✚ Denotes contract awarded. The names of bidders awarded contracts are set in CAPITALS.

RAILWAYS

✚**Florida**—Tampa & Gulf Coast Ry.—This company has awarded the contract for construction of its proposed line from Belleair, Fla., to St. Petersburg. C. H. Lutz, Odessa, Fla., is Gen. Mgr.

Alabama—Alabama Great Southern R.R.—This company, it is reported, will ask for bids in about two weeks for double-tracking two sections of its line. The first work will be between Birmingham, Ala., and Mobile Junction, Ala., 14 miles, and between York, Ala., and Meridian, Miss. This is part of the plan to double-track the entire line from Chattanooga, Tenn., to Meridian, Miss., for which $25,000,000 in bonds have been issued. C. Dougherty, Cincinnati, Ohio, is Ch. Engr. Noted June 25.

Mississippi—Alabama Great Southern R.R.—See item under Alabama.

✚**Mississippi**—The Commercial Club of Yazoo City, Miss., has awarded the contract to WALTER C. MURPHY, Yazoo City, for the construction of a standard gage railroad from Yazoo City to Carthage, Miss. Bonds for $100,000 have been issued.

Mississippi—Mobile & Ohio R.R.—This company plans to double-track its line between Corinth, Miss., and Jackson, Tenn. B. A. Wood, Mobile, Ala., is Ch. Engr.

✚**Louisiana**—Vicksburg, Alexandria & Southern Ry.—This company has awarded a contract to FRANK T. CONSTANT, Alexandria, La., to construct 8½ miles of its proposed line, from Tioga, La., to Alexandria.

Tennessee—Mobile & Ohio R.R.—See item under Mississippi.

Tennessee—Belt Ry. of Chattanooga—This company, it is reported, has purchased 50 acres of land about two miles north of Chattanooga, Tenn. Terminals and yards will be constructed. H. S. Chamberlain, Chattanooga, is Pres.

Tennessee—Nashville, Shiloh & Corinth Ry.—The citizens of Perry County, Tenn., will vote July 11, on the proposition to issue $100,000 in bonds to aid the construction of this company's proposed line. The county seat of Perry County is Linden.

Tennessee—Alabama Great Southern R.R.—See item under Alabama.

Kentucky—Wasioto & Black Mountain R.R.—This company plans to construct an extension from Benham, Harlan County, Ky., to coal and timber lands in Letcher County, 16 miles.

Kentucky—Illinois Central R.R.—This company plans to start work soon to double-track its line from Princeton to Eddyville, 40 miles, at an estimated cost of $500,000. A. S. Baldwin, Chicago, Ill., is Ch. Engr.

Ohio—Tri-State Rys. Co.—See item under Michigan.

Ohio—Akron, Canton & Youngstown Ry.—This company plans to construct an extension to Canton, Ohio, from its present terminus at Magadore, Ohio. Estimated cost $3,000,000. J. A. Donahey, Akron, Ohio, is Gen. Supt. and Ch. Engr.

✚**Michigan**—Tri-State Rys. Co.—This company has awarded the contract to A. C. LINGEBACH & CO., Chicago, Ill., for constructing its proposed 18-mile railroad from Hillsdale, Mich., south to Pioneer, Ohio. Noted June 25.

Illinois—La Salle Terminal R.R.—This company is having surveys made for its proposed seven-mile industrial line in the La Salle District, Ill. Isham, Randolph & Co., Chicago, Ill., are Engrs.

Wisconsin—Wisconsin Southern Ry.—This company is receiving bids for the construction of 32 miles of railroad in Wisconsin. The officials of the company are located at Fond du Lac, Wis.

Nebraska—Missouri Pacific R.R.—This company, it is reported, plans to rebuild its low-grade line between Omaha, Neb., and Kansas City, Mo. J. R. Stephens, St. Louis, Mo., is Ch. Engr.

Missouri—Rolla, Ozark & Southern R.R.—This company was granted a charter, June 11, to construct a railroad out of Rolla. J. J. Cope, Salem, Mo., is interested.

Arkansas—The construction of a railroad from Hot Springs, Ark., to Mena, Ark., 65 miles, is under consideration. W. E. Womble, Womble, Ark., is interested.

Arkansas—Free Valley R.R.—This company has been granted a charter by the State Board of Railway Incorporation, Little Rock, to construct a railroad from Eagle Mills, Ark., to Princeton, Ark., 25 miles. Edward Bower, Little Rock, is interested.

Texas—Kansas City, Mexico & Orient Ry.—This company plans to construct a line from Alpine, Tex., to the Rio Grande crossing, six miles from Presidio, Tex. R. P. Parker, San Angelo, Tex., is Ch. Engr.

Texas—The Chamber of Commerce of Dallas, Tex., it is reported, is considering the construction of a railroad from Dallas to Palestine, Tex., 105 miles. J. R. Babcock, Dallas, is interested.

Idaho—Oregon Short Line R.R.—This company plans to construct a line from the Yellowstone Park Branch into Teton Basins, Idaho, a distance of 75 miles. E. E. Calvin, Salt Lake City, Utah, is Gen. Mgr.

Nevada—A merger by which two parallel lines of railroad in Nevada are to be made one, and trackage abandoned whose initial cost was $1,200,000, was decided upon at a conference in this city June 17, between the officials of the Las Vegas & Tonopah R.R. and Tonopah & Tidewater R.R., which was the Bullfrog Goldfield R.R. The two roads were built when the Goldfield-Tonopah District was prospering, but when the mines began to show disintegration it was found that one line was not needed. As mapped out, about half of the roads between Goldfield and Beaty will be abandoned, and the remaining segments hooked together. J. Ross Clark, Los Angeles, Calif., is Pres. L. V. & T. Ry.

California—John Thorp, Memphis, Tenn., and Y. S. Scritsmier, Portland, Ore., are interested in the construction of a railroad from Sacramento, Calif., to timber lands in Eldorado County, Calif.

★**Canada**—A Canadian holding company owns the charter for a continuous line of railway in western Canada, covering a distance of approximately 1250 miles. The line traverses a territory containing coal, timber, oil and various kinds of minerals and also a most productive wheat country. The company has made reconnaissance, route and location surveys costing about $150,000, and has also made accurate estimates of the cost of construction. Bonding powers and government grants considerably exceeding the estimated cost of construction are granted to the company by acts of Canadian Parliament. The holding company owns several valuable tracts of coal, oil and timber lands and also a number of valuable terminal sites, situated in leading commercial centers. The company wishes to place the whole proposed line under construction immediately and is prepared to treat with capitalists or large contractors who will take the construction bonds at an agreed price and build and equip the said proposed lines according to the plans prepared by the company's engineers. Offers will only be entertained from capitalists or contractors of known standing. Correspondents are therefore required to give full particulars of their name and address in the first instance. Address first correspondence to Canadian Railway Builders, P. O. Box 601, Winnipeg, Man., Canada.

ELECTRIC RAILWAYS

Limestone, Maine—George Cook, Caribou, is interested in the construction of an electric railway from Limestone to Caribou, about nine miles.

Buffalo, N. Y.—The International Traction Co. contemplates the extension of its lines into the Reusens Park section. J. A. McKenna, Buffalo, is Secy.

Cortland, N. Y.—The Cortland Traction Co. has been granted permission to double-track its line in Cortland. Edwin Duffey, Cortland, is Treas. and Mgr.

Gleasonton, Penn.—The Gleasonton & Paddy Run Ry. Co. has been incorporated to construct an electric railway from Gleasonton to a point near Renovo, about 10 miles. I. W. Gleason is Pres.

Lititz, Penn.—The Berks & Lancaster Ry. Co. has been incorporated to construct an electric railway from Lititz to Womelsdorf. The incorporators are Frank J. Duckett, T. Holland Paist, William Grimshaw, Oscar R. Dare, Joseph J. Dimond, and H. B. Longbottom, Philadelphia, and V. J. McGlesney, Phœnixville.

Augusta, Ga.—The Augusta-Aiken Ry. & Electric Co. has been granted a franchise to extend its line on Walton Way to the city limits. E. C. Deal, Augusta, is Gen. Mgr.

Savannah, Ga.—The Savannah Electric Ry. Co. is preparing plans for the extension of its line on Habersham St. to 49th St. A. L. P. Smith, Savannah, is Pur. Agt.

St. Petersburg, Fla.—The St. Petersburg & Gulf Ry. Co. contemplates double-tracking its lines on various streets in St. Petersburg. H. Walter Fuller, St. Petersburg, is Gen. Mgr.

Cincinnati, Ohio—The Cincinnati, Indiana & Ohio River Ry. Co. has been organized to construct an electric railway from Cincinnati, Ohio, to Louisville, Ky. L. S. Cook, Cincinnati, is interested.

The Cincinnati Traction Co. contemplates the extension of its Gilbert Ave. line on Hewitt, Wold and Fairfax Aves. T. Fitzgerald, Cincinnati, is Gen. Mgr.

Columbus, Ohio—The Columbus Ry. & Light Co. is considering plans for double-tracking its line on Oak St. H. W. Clapp, Columbus, is Gen. Supt.

Georgetown, Ill.—W. C. Jones, Georgetown, is interested in the construction of an electric railway from Georgetown to the new Bunsen mine.

Kewanee, Ill.—Preliminary arrangements are being made by the Kewanee, Bradford & Henry Interurban Ry. Co. for the construction of an electric railway to connect Kewanee, Osceola, Bradford and Henry, about 35 miles. C. G. Lampman, Cedar Rapids, Iowa, is interested. Noted Apr. 9.

Pekin, Ill.—Bids will be received July 6 by the City Clerk for the rehabilitation and equipment of about 3½ miles of electric railway in Pekin.

Fond du Lac, Wis.—The Eastern Wisconsin Ry. & Light Co. contemplates the extension of its lines into the eastern and western sections of the city. J. P. Pulliam, Oshkosh, is Gen. Mgr.

Hutchinson, Kan.—The Hutchinson Interurban Ry. Co. has applied to the City Council for a franchise to build a single-track loop. W. A. Hutchinson, is Gen. Mgr. and Pur. Agt.

Dallas, Tex.—Plans are being prepared by the Texas Traction Co. for double-tracking its Main St. line in Dallas. R. B. Stichter, Dallas, is Gen. Mgr.

The City Council has granted a franchise to the Dallas Consolidated Electric Ry. Co. to double-track its Highland Park line to the Southern Methodist University in Dallas. Edward T. Moore, Dallas, is Mgr. Noted June 18.

D. Sonnentheil has filed a new application with the Commissioners' Court for a franchise for a double track electric railway from the end of the Junius Heights car line to the Lakewood Heights addition.

Fort Worth, Tex.—Preparations are being made for the construction of an interurban electric railway from Fort Worth to Hubbard, about 30 miles.

Hillsboro, Tex.—J. C. Butts, Secy. of the Commercial Club of Itasca, Tex., and associates are interested in the construction of an interurban electric railway from Hillsboro to Burleson, about 3 miles. The route of the proposed line is via Grandview, Itasca and Lovelace.

Mexia, Tex.—Plans are being considered for the construction of an electric railway from Mexia to Fort Worth. E. N. Farris, Hillsboro, Tex., is interested.

†Ogden, Utah—The Ogden Rapid Transit Co. has awarded a contract for the extension of its line to Huntsville, to the UTAH CONSTRUCTION CO., Ogden.

Tuscon, Ariz.—The Tuscon Rapid Transit Co. contemplates the extension of its line on Park Ave. and Speedway. Frank E. Russell, Tuscon, is Gen. Mgr.

Astoria, Ore.—The Pacific Power & Light Co. has been granted a franchise to extend its lines in Astoria. James E. Davidson, Portland, is Gen. Mgr.

Benicia, Calif.—The Benecia Land & Terminal Co. contemplates the construction of an electric railway from Benicia to Vallejo. J. R. Cunningham, Benicia, is Mgr.

Ocean Beach, Calif.—The Ocean Shore Ry. Co. has been incorporated to construct an electric railway to connect Ocean Beach and Pacific Beach. The incorporators are Charles W. Fox, George L. Barney, Gordon Decker, John F. Forward, Jr., and J. H. McKle.

San Diego, Calif.—The Point Loma Ry. Co. has secured a franchise to extend its line to the wireless station and to Fort Rosecrans. B. M. Warner, San Diego, is Gen. Supt.

†San Francisco, Calif.—The Board of Supervisors has awarded the contract for the electrical conductors for the UNDERGROUND CABLE CO. at $34,000.

Toronto, Ont.—The Toronto Ry. Co. is preparing to reconstruct its entire system. About 13 miles of track will be relaid. R. J. Fleming, Toronto, is Gen. Mgr.

LIGHT, HEAT AND POWER

†East Norwalk, Conn.—Contracts for the municipal electric-light station at Second Point have been awarded to M. J. ROIRDAN, for the building and the LEWIS ROTH CO., Philadelphia, Penn., for the equipment. The building will be 32x 60 ft. one-story and basement of brick and reinforced concrete. A. N. Paddock, 59 Seaview Ave., is the Arch. and Joseph Rider, 29 Broadway, New York, N. Y., is the Elec. Engr. The cost will be about $125,000. Noted May 7 and 28.

†Amsterdam, N. Y.—McCleary, Wallin & Crouse have awarded a contract to J. W. BISHOP, 109 Foster St., Worcester, Mass., for the construction of a power plant in connection with its establishment.

New York, N. Y.—(Borough of Richmond)—Bids will be received by the Board of Water Supply, Gas and Electricity, until July 8 for the construction of a transmission line in Southfield Blvd. William Williams is Comr.

Orwell, N. Y.—The Salmon River Power Co. is preparing plans for the construction of a power dam on the Salmon River, near Orwell.

Wayland, N. Y.—The Wayland Electric Light & Power Co. will construct about three miles of transmission lines in Wayland. John Kimmel is Mgr.

Jersey City, N. J.—The Brunswick Laundry, Inc., will build a new one- and two-story power house and engine room at its plant on Tonnele Ave. George A. Flagg is Arch.

Newark, N. J.—Plans are being prepared by the Public Service Electric Co. for the construction of a power plant at Point-no-Point, on the Passaic River. About 200,000-hp. will be developed. Estimated cost, $2,000,000. Dudley Farrand, Newark, is Gen. Mgr.

Tallahassee, Fla.—See item under "Water Supply and Irrigation."

Springfield, Tenn.—Plans are being considered by the City Commissioners for the improvement and enlargement of the municipal electric-light plant.

Norwalk, Ohio—Bonds for $120,000 have been voted for the construction of a municipal electric-light plant.

West Union, Ohio—Plans are being prepared for the construction of an electric-light plant at West Union.

Wyoming, Ohio—Preliminary plans are being prepared for the construction of a municipal electric-light plant in Wyoming.

Tell City, Ind.—Bonds for $17,000 have been voted for the purpose of improving and enlarging the municipal electric-light plant.

Lincoln, Ill.—Plans are being considered by the Logan County Gas Co. for laying about three miles of gas main in Lincoln.

Springfield, Ill.—(Official)—Bids will be received by the Board of Local Improvements until 10 a.m., July 6, for the installation of an ornamental lighting system on Adams St. from Lewis to 10th St. Wade D. Seeley is City Engr. Noted Apr. 23.

Columbus, Wis.—Bids will be received by the Water and Light Commission until July 13 for the construction of an addition to the municipal power plant. A. H. Procter is Secy. of the Comn.

La Crosse, Wis.—The Wisconsin-Minnesota Light & Power Co. has increased its capital to provide funds for the purchase and improvement of several power plants in western Wisconsin. Joseph H. Brewer is Pres.

Aurora, Minn.—Bonds for $20,000 have been voted for the improvement and enlargement of the municipal electric-light plant.

Arma, Kan.—Plans are being prepared by Albert C. Moore, Engr., Joplin, Mo., for the improvement and extension of the municipal electric-light plant and water system. Estimated cost, $10,000.

Douglas, Kan.—The city has petitioned the Board of Public Utilities for permission to issue bonds for $15,000 for the installation of an electric distributing system. C. A. Ogg is City Clk. and Albert C. Moore, Bartlett Bldg., Joplin, Mo., Engr.

Effingham, Kan.—The city has decided to construct a transmission line from Atchison to Effingham.

La Crosse, Kan.—An election will soon be held at which the proposition to issue bonds for $12,000 for the improvement of the municipal electric-light plant, will be submitted to the citizens.

Leavenworth, Kan.—W. J. Squires has applied to the City Council for a franchise to construct and operate an electric-light plant at Leavenworth.

Powhattan, Kan.—A bond issue of $10,000 for the construction of a municipal electric-light plant was voted at the recent election.

†Decatur, Neb.—The city has awarded a contract to ROBERT BURNS for the construction of an addition to the municipal power plant.

St. Paul, Neb.—The City Council is considering plans for the construction of a municipal electric-light plant in St. Paul.

Alexandria, S. D.—Bids will be received by the city about Aug. 1 for the construction of a municipal electric-light plant. H. M. Schumacher is City Audr.

Grand Forks, N. D.—(Official)—The city will lay about 4000 ft. of underground conduit and extend the ornamental street-lighting system. J. J. Smith is City Engr.

Choteau, Mont.—Plans are being prepared by the Choteau Light & Power Co. for the improvement and extension of its electric-light and power plant.

Nevada, Mo.—The city contemplates the construction of a municipal electric-light plant.

Palmyra, Mo.—See item under "Water Supply and Irrigation."

Fort Worth, Tex.—The Fort Worth Gas Co. will extend its mains and distributing system through the suburbs of Arlington Heights, River Crest and Hi-Mount.

Gorman, Tex.—Plans are being prepared by the DeLeon-Gorman Light & Power Co. for the construction of a power plant at Gorman.

Taft, Tex.—Preliminary arrangements are being made for the reconstruction of the municipal electric-light plant, which was recently destroyed by fire.

Victor, Idaho—The City Council has under consideration the construction of a municipal light and power plant, which will supply the city and vicinity.

Ridgefield, Wash.—J. H. Cunningham, Portland, Ore., has been granted franchises for an electric lighting and water system for the city.

White Salmon, Wash.—The Northwest Electric Co. will soon start work on the construction of a power plant on the White Salmon River, about 12 miles from White Salmon.

Tillamook, Ore.—F. D. Small and D. C. Urie have been granted a franchise to construct and operate an electric-light plant in Tillamook. Estimated cost, $30,000.

†Fresno, Calif.—The contract for the installation of an ornamental street lighting system has been awarded by the City Trustees to NE PAGE & McKINNEY, Seattle, Wash., at $45,000.

Oroville, Calif.—Plans are being considered by the Oro Electric Corporation to extend and improve its system in the Thermalito District. A. A. Davis is Supt.

Montreal, Que.—The city will build a municipal electric-light plant to cost, $172,667.

The Cedar Rapids Power Co. Power Bldg., Montreal is preparing plans for the construction of a transmission line from the Cornwall canal south to the International boundary.

Lucan, Ont.—Plans are being prepared for the construction of a new hydro-electric system at Lucan. George Stanley is interested.

†Owen Sound, Ont.—(Official)—The contract for the construction of a power dam at Eugenia Falls, near Owen Sound, has been awarded by the Hydro-Electric Power Commission to the AMBURSEN HYDRAULIC CONSTRUCTION CO., Montreal, Que.

Stony Mountain, Man.—The construction of a substation at Stony Mountain is under consideration.

Sudbury, Ont.—The Sudbury & Copper Cliff Ry. Co. is preparing plans for expending $200,000 on a new electric line, power house and general equipment.

Wolseley, Sask.—Preliminary arrangements are being made for the improvement and extension of the municipal electric-light plant. Charles Stengel is Mgr.

BRIDGES

★**Cambridge, Mass.**—(Official)—Bids will be received until noon, July 13 for rebuilding the Walden St. Bridge over the tracks of the Fitchburg R.R. The bridge will be 63 ft. long and 42 ft. wide. L. M. Hastings is City Engr.

Hartford, Conn.—Bids will be received until 2 p.m. July 14, by the State Highway Commissioner, Hartford, for constructing bridges in several townships.

Albany, N. Y.—Bids were received as follows, June 23, by Duncan W. Peck, State Supt. Pub. Wks., Albany, for Barge Canal contract No. 121, bridge work: General Erecting Co., Syracuse, $9670; M. Fitzgerald, Hoosick Falls, N. Y., $10,507; Lupfer & Remick, Buffalo, N. Y., $10,416; engineer's estimate, $9590.

★**Albany, N. Y.**—John A. Bensel, State Engr., Albany, opened bids, June 16, for constructing the proposed viaduct over Normanskill Creek, at Bethlehem. The lowest bid was submitted by the Penn Bridge Co., Beaver Falls, Penn., at $58,234.

Albany, N. Y.—(Barge Canal Work)—Bids will be received until noon, July 21, by Duncan W. Peck, State Supt. Public Wks., Albany, for Barge Canal Contracts Nos. 109 and 118, which provide for bridges over the Mohawk River at Crescent, N. Y., and Amsterdam, N. Y. The Crescent bridge will be about 1135 ft. long and will have five spans. The cost is estimated at $190,243. The bridge at Amsterdam will span the Barge Canal and the river at that point. The cost of the bridge is estimated at $153,000.

Buffalo, N. Y.—The city plans to reconstruct the condemned Hamburg St. and Michigan St. viaducts. Bids will be received until July 8 by Francis C. Ward, Dir. Pub. Ser.

Norwich, N. Y.—The citizens, June 11, voted in favor of constructing a reinforced concrete bridge at South Broad St.

✚**Westfield, N. Y.**—The town has awarded the contract to E. N. & R. E. SPAULDING, Sheffield, N. Y., for constructing a reinforced-concrete arch across Little Chatauqua Creek, at $9765. Bids were opened June 12. Noted June 11.

✚**Freehold, N. J.**—The Board of Chosen Freeholders has awarded the contract to OWEN J. MELEE, Long Branch, N. J., for raising and improving the bridge over Parker's Creek, near Little Silver, at $17,900. Bids were opened June 10. Noted June 4.

Newark, N. J.—The Board of Public Works, in conjunction with the Lehigh Valley R.R., plans to construct a viaduct over the company's tracks at Bay Ave. The structure will be used in connection with the opening of Haynes Ave.

★**Perth Amboy, N. J.**—Bids will be received by the Board of Chosen Freeholders, County Record Bldg., New Brunswick, N. J., until 2:30 p.m., July 20, for the construction of a reinforced bridge across the cut or crossing of the Lehigh Valley R.R. at Convery Place, Perth Amboy, accordng to plans and specifications on file at the office of Thomas H. Hagerty, County Collector, New Brunswick, and at the office of Alvin B. Fox, Perth Amboy.

Trenton, N. J.—The Board of Chosen Freeholders plans to construct a bridge at Lee Ave., Trenton. Theodore Tobish is County Engr.

Grindstone, Penn.—Bids will be received until noon, July 8, by Harry Kisinger, County Controller, Uniontown, Penn., for constructing a reinforced concrete bridge over Redstone Creek at Grindstone.

Guthsville, Penn.—Bids will be received until 10 a.m., July 9, by the Lehigh County Commissioners, Allentown, for constructing a bridge over Jordan Creek at Guthsville. Harry C. Weinart is Clk.

Pittsburgh, Penn.—Bids will be received until noon, July 12, by R. J. Cunningham, County Controller, Pittsburgh, for constructing Bridge No. 7 over Thompson's Run in Penn and Patton Townships.

Scranton, Penn.—J. D. Hayes, Dir. Pub. Wks., has approved plans and specifications for the proposed steel bridge to be constructed across Leggett's Creek. Estimated cost, $6000.

✚**Waynesburg, Penn.**—The Green County Commissioners have awarded the contract to the CROSSON CONSTRUCTION CO. for constructing a concrete bridge over Pumpkin Run, at $10,778.

West Chester, Penn.—Bids will be received until noon, July 6, by Isaac Y. Ash, County Controller, West Chester, for constructing a steel bridge over Doe Run Creek. Noted May 14.

✚**Wilkes-Barre, Penn.**—The County Commissioners, Wilkes-Barre, have awarded the contract to F. A. REYNOLDS & SON, Scranton, Penn., for constructing a 12-span concrete highway bridge at $19,466. David A. Keefe, Athen, Penn., is Engr.

Wilkes-Barre, Penn.—Bids will be asked at once by the City Council for the proposed bridge to connect the East End, Wilkes-Barre and North Wilkes-Barre. B. K. Finch is City Engr. Noted June 25.

York, Penn.—Charles Williams, County Engr., York, has prepared plans and specifications for one stone arch and five reinforced concrete bridges to be constructed in various parts of the county.

✚**Oakland, Md.**—The County Court, Oakland, has awarded the contract to the FARRIS BRIDGE CO., Charleston, W. Va., for the construction of a bridge at Davis Ford in Patterson's Creek, at about $5000.

✚**Durham, N. C.**—(Official)—The contract has been awarded by the county to the CURTIS-THORNTON CO., Burlington, N. C., for constructing two bridges, at $4997.

✚**Hillsboro, N. C.**—(Official)—The contract has been awarded by Orange County to the CURTIS-THORNTON CO., Burlington, N. C., for constructing seven bridges, at $4700.

✚**Lexington, N. C.**—(Official)—Davidson County has awarded the contract to the CURTIS-THORNTON CO., Burlington, N. C., for constructing 13 bridges, at about $7000.

Americus, Ga.—The Commissioners of Sumter and Crisp Counties plan to construct a steel bridge connecting the two counties. Americus is the county seat of Sumter County.

Bay Minette, Ala.—Bids will be received until July 14 by H. H. Smith, Probate Judge, Boy Minette, for constructing two bridges, one of steel and one of concrete.

✚**Hamilton, Ala.**—The County Commissioners have awarded the contract to the SOUTHERN BRIDGE CO., Birmingham, Ala., for constructing a steel bridge across Buttahatchie River, one mile east of Hamilton, at $6435.

Meridian, Miss.—Bids will be received until July 6 by the Board of County Supervisors, Meridian, for constructing two steel bridges.

Vicksburg, Miss.—Bids will be received until noon, July 6, by J. D. Laughlin, Chancery Clk., Vicksburg, for altering and repairing the steel bridge over Durden Bayou.

✚**Crowley, La.**—The city has awarded the contract to AUSTIN BROS., Houston, Tex., for constructing a bridge, at $5275.

✚**Winnsboro, La.**—The Police Jury, June 22, awarded the contract to the VINCENNES BRIDGE CO., Vincennes, Ind., for constructing five steel bridges, at $5527.

Covington, Ky.—The city plans to construct a viaduct at Delta Ave. to eliminate the grade crossing at that point. Frank Rashaig is City Engr.

Louisville, Ky.—Bids are being received by the Board of Public Works for the construction of a concrete bridge over Beargrass Creek at Ellison Ave. Estimated cost, $12,000. D. R. Lyman is City Engr. Noted Apr. 16.

Whitesburg, Ky.—Bids will be received until Aug. 3 by the Judge of the County Court, Whitesburg, for constructing three bridges over the Kentucky River. The bridges will be of 108-, 114- and 120-ft. spans. I. N. Lewis, Whitesburg, is County Rd. Engr.

Cincinnati, Ohio—The citizens, July 14, will vote on the proposition to issue $50,000 for constructing and repairing bridges. Fred Schneller is Clk. of Council.

Miamisburg, Ohio—Bids will be asked at once by the County, Commissioners, Dayton, Ohio, for constructing the Linden Ave. Bridge at Miamisburg. The structure will be 660 ft. long. Victor C. Smith is County Surv.

✚**Tiffin, Ohio**—(Official)—Bids were received, June 20, by the Commissioners of Seneca County for constructing three steel bridges in various parts of the county. The contract nas been awarded to the MODERN CONSTRUCTION CO., Fremont, Ohio, at $8140. J. E. Hershberger is County Audr.

Toledo, Ohio—Bids will be received by the Lucas County Commissionsers, Toledo, until 10 a.m., July 17, for constructing several bridges over the Miami & Erie Canal Charles J. Sanzenbacher is County Audr.

✚**Aurora, Ill.**—(Official)—Bids were opened, June 20, by the Town Clerk for constructing the Montgomery Bridge over the Fox River. The contract has been awarded to NEWKIRK & POWERS, Joliet, Ill., at $13,307.

Waupaca, Wis.—Bids will be received by the County Clerk, Waupaca, until July 7, for the construction of three bridges.

✚**Council Bluffs, Iowa**—The County Supervisors have awarded the contract to the LANA CONSTRUCTION CO., Council Bluffs, for bridge work in six townships, at $24,958.

✚**Fort Dodge, Iowa**—The City Council has awarded the contract to N. M. STARK & CO., Des Moines, Iowa, for constructing two reinforced concrete bridges over the ravine north of Prospect Hill and over Lizard Creek, at $15,300.

West Union, Iowa—The county plans to construct bridges in various parts of the county to cost $26,000. G. A. Blunt is County Engr.

Hastings, Minn.—Bids will be received until noon, July 13, by P. A. Hoffman, County Audr., Hastings, for constructing three reinforced concrete bridges in various parts of the county.

Minneapolis, Minn.—F. W. Cappelen, City Engr., has estimated the cost of the proposed bridge over the Mississippi River between 14th Ave. South, and 19th Ave., S. E., at $365,000.

Stillwater, Minn.—Bids will be received until July 7 by the City Council for constructing a concrete bridge across Kusick Ravine. L. W. Clark is City Engr.

Concordia, Kan.—A. R. Losh, Engr., Topeka, Kan., has prepared plans for eight concrete bridges for the Cloud County Commissions, Concordia.

Erie, Kan.—The Neosho County Commissioners, Erie, plan to construct four concrete bridges to cost $20,000.

La Crosse, Kan.—Bids will be received until noon, July 6, by the Board of County Commissioners, La Crosse, for constructing the superstructure of the proposed steel bridge over Walnut Creek. The structure will have one main span, 70 ft. long and two approaches 25 ft. and 30 ft. long, respectively. M. M. Wilson is County Clk.

Mankato, Kan.—Plans have been prepared by A. R. Losh, Engr., Topeka, Kan., for seven concrete bridges for the Jewell County Commissioners, Mankato.

✚**Nebraska City, Neb.**—(Official)—Bids were opened June 8 by the Board of Commissioners of Otoe county for constructing a concrete bridge across North Table Creek. The contract has been awarded to the WILSON REINFORCED CONCRETE CO., Nebraska City, at $5700. Noted May 28.

✚**Fromberg, Mont.**—The contract has been awarded by the county to the RELEY CONSTRUCTION CO., Livingston, Mont., for constructing a concrete bridge over Clarks Fork River at Fromberg, at $20,000. Noted May 21.

Malta, Mont.—Bids will be received until July 6 by the Glasgow County Commissioners, Glasgow, for constructing a steel bridge over Flat Creek, about 33 miles south of Malta.

Nevada, Mo.—Bids will be received until noon, July 21, by the Vernon County Court, Nevada, for constructing five bridges. J. B. Akers, Nevada, is County Clk.

Savannah, Mo.—Bids will be received until 2 p.m., July 8, by J. E. Schnitzins, County Engr., Savannah, for concrete bridges, steel bridges and culverts.

Springfield, Mo.—Bids will be received until July 6, by J. R. McAfee, County Surv., Springfield for constructing two bridges, one over the Pomme de Terre and the other over Pearson River.

Batesville, Ark.—Bids will be received until July 10 by J. W. Scott County Judge of Independence County, Batesville, for constructing a concrete bridge to cost $5000. Noted Dec. 4, 1913.

✚**Fayetteville, Ark.**—The Bridge Commissioners, June 19, awarded the contract to the VINCENNES BRIDGE CO., Vincennes, Ind., for constructing two steel wagon bridges, one over the Illinois River at Howes' Ford and one over West Fork at Combs' Ford, at $7680.

✚**Angleton, Tex.**—The Commissioners Court has awarded the contract to P. G. BURNS & CO., for repairing the Columbia Bridge, at $29,500.

✚**Beeville, Tex.**—The Bee County Commissioners, June 11, awarded the contract to A. A. ALSBURY & SON, Dallas, Tex., for the construction of a steel bridge, at $5750.

✚**Waco, Tex.**—(Official)—Bids were received, June 22, by the Commissioners' Court of McLennan county, Waco, for bridges and road work in Dist. No. 2. Contracts have been awarded as follows: To the McCALL-MOORE ENGINEERING CO., Waco, for bridges Nos. 1, 2 and 3, at $80,226; for bridges Nos. 4 and 5, to RICHARD MOREY, St. Louis, Mo., at $39,900; for roads Nos. 4 and 5, to RICHARD MOREY, at $262,710; Road No. 3, to FLANAGEN BROS., Waco, at $129,448; Road No. 2, to L. H. PRICHETT, Waco, at $94,605; Road No. 1, to OCKANDER BROS., Waco, at $197,381.

Buttes, Colo.—Bids will be received until noon, July 2, by Elroy C. Sheldon, County Clk., Colorado Springs, Colo., for constructing a reinforced concrete bridge across the Fountain River near Buttes.

Challis, Idaho—Bids will be received by the Custer County Commissioners, Challis, until July 11, for constructing three steel bridges over the Salmon River.

Phœnix, Ariz.—Bids will be received until noon, July 13, by James Miller, Jr., Clk. Bd. of Supervisors, Phœnix, for constructing the proposed reinforced concrete bridge across the Salt River Valley Canal on the Phœnix-Tempe Hikhway. Noted May 28.

Bellingham, Wash.—The County Commissioners of Whatcom County, Bellingham, have decided to build the Chuckanut Bridge on the Waterfront Road, in the city limits. Bids for the work will be asked at once.

Salem, Ore.—Plans have been completed by the Highway Commission for two 210-ft. bridges to be constructed near Barton and Molalla, Ore, H. L. Bowlby, Salem, is State Highway Engr.

Alhambra, Calif.—Bids will be asked soon by the city for constructing a reinforced concrete bridge over Mill Creek between Alhambra and San Gabriel. Bonds for $25,000 have been sold.

Kernville, Calif.—Bids will be received by the Board of Supervisors, George Brundage, Clk., until 10 a.m., July 15, for the construction of a pile trestle bridge 208 ft. long, and 20 ft. wide over the Kern river, near Kernville; also a pile trestle bridge 20 ft. wide over a brach channel of the same stream near the bridge site.

✚**Klamath, Calif.**—The county has awarded the contract to FRANK L. SMITH, Eureka, Calif., for constructing the proposed suspension bridge over the Klamath River at Martin's Ferry, at $15,875.

San Diego, Calif.—The Board of Supervisors, San Diego, plans to issue bonds for $1,000,000 for constructing concrete and steel bridges throughout the county.

✚**Toronto, Ont.**—The Board of Control has awarded the contract to WILSON, TOWNSEND & SAUNDERS for constructing a reinforced concrete bridge over Bellewoods Park, connecting Crawford and Arthur Sts., at $40,669.

York, Ont.—Bids will be received until July 6 by Frank Barber, Township Engr., 57 Adelaide St. East, Toronto, Ont., for constructing a reinforced concrete bridge over the Don River, near Schmidt's Mill, Township of York, York county.

Windsor, Ont.—Essex County plans to spend $10,000 for new bridges and repairs to old bridges.

Calgary, Alta.—The City Council will ask for bids soon for reinforced concrete bridges and two docks to cost $975,000. George W. Craig is Engr. Noted June 4.

Regina, Sask.—Bids will be received until July 11 by F. J. Robinson, Chn. Bd. Highway Comrs., Regina, for constructing a group of bridges, known as Group 20, in Touchwood, North du'Appelle and Pipestone districts, Sask.

Victoria, B. C.—The City Council has directed the City Engineer to prepare preliminary plans and estimates of cost of the Johnson Street Bridge. The matter will be submitted to the voters at an early election. C. H. Rust is City Engr.

WATER SUPPLY—IRRIGATION

✚★**Boston, Mass.**—(Official)—Contract No. 356 for water pipe and special castings has been awarded by the Metropolitan Water and Sewer Board to the WARREN FOUNDRY & MACHINE CO., at $22,775. Other bidders were the United States Iron Pipe & Foundry Co., $22,985; the Florence Iron Works, $23,112; and the Standard Cast Iron Pipe & Foundry Co., $24,160.

Contract No. 355 for c.-i. water pipe and special castings has been awarded to the WARREN FOUNDRY & MACHINE CO., at $23,195. Other bidders were the United States Cast Iron Pipe & Foundry Co., $23,247; and the Florence Iron Works, $23,322. Bids were opened June 19. Noted June 11.

✚**Fall River, Mass.**—(Official)— The contract for furnishing a motor driven centrifugal pump has been awarded to the WILSON-SNYDER CENTRIFUGAL PUMP CO., Pittsburgh, Penn., at $4550. Bids were opened June 20. Noted June 18.

Waterbury, Conn.—Three holding basins will be constructed by the manufacturers of the Naugatuck Valley in Lead Mine Brook Valley to conserve the water. Charles H. Preston, Consult. Engr., Waterbury, is a member of the Comn. Noted May 28 under Thomaston.

Cohoes, N. Y.—The Board of Water Commissioners contemplates laying a 30-in. main from the pumping station to No. 3 reservoir. The estimated cost is $15,000.

New York, N. Y.—(Borough of Manhattan)—(Official)—Bids will be received by William Williams, Comr., Water Supply, Gas and Electricity, Municipal Bldg., until 2 p.m., July 3 for transferring taps and rearranging connections on existing water mains in various streets in the Borough of Manhattan.

(Borough of Brooklyn)—(Official)—Bids will be received by William Williamson, Comr. of Water Supply, Gas and Electricity, until 2 p.m., July 3 for cleaning water mains and setting additional valves.

★**New York, N. Y.**—(Official)—See item under Guayaquil, Ecuador.

✚**Pittsford, N. Y.**—(Official)—The contract for constructing a water system has been awarded to GEORGE H. BRICKLAND, Rochester, at $4220. K. H. Smead is Engr. Noted May 21.

Bound Brook, N. J.—The Board of Public Utility Commissioners has granted the Bound Brook Water Co. permission to issue bonds for $50,000 to be used for extensions to its plant and system.

Harrison, N. J.—(Official)—Bids will be received by C. T. Van Deren, Chn. of the Water Com., until 9 p.m., July 7, for c.i. water-pipe and specials.

(Official)—Bids will be received by C. T. Van Deren, Chn. of the Water Comm., until 9 p.m., July 7, for laying water-pipe, setting valves, etc. Plans are on file with Borrie & Kreiner, Kinney Bldg., Newark, N. J.

Hopewell, N. J.—Bids will soon be received for the installation of a new pumping plant. J. D. Kilpatrick, 30 Church St., New York, N. Y., is the Engr. Noted Apr. 30.

Perth Amboy, N. J.—The Board of Water Commissioners has voted bonds for $100,000 for improvements and extensions at the Runyon pumping station, including the installation of new pumping machinery. Noted June 4.

✚**Pompton Lakes, N. J.**—(Official)—The contract for constructing a water system has been awarded by the mayor and council to PARTRIDGE & BURKE, Hohokus, N. J. Noted Apr. 23.

Butler, Penn.—The Butler Highfields Water Co., has been organized with a capital of $5000 and will construct a water system. H. G. Conley, Butler, is interested.

Uniontown, Penn.—Press reports state that the Uniontown Water Co. will reline Coolspring No. 2 with concrete at an estimated cost of $8000. Hutchinson reservoir will also be repaired.

✚**Baltimore, Md.**—(Official)—Bids were received June 17 by the Board of Awards for constructing superstructures at Lake Montebello under contract No. 23 as follows: The CONSOLIDATED ENGINEERING CO., Inc., Baltimore, at $201,599 (awarded contract); Charles L. Stockhausen, $233,643; Henry Smith & Sons Co., $226,580; David M. Andrew Co., $27,090; and Morrow Bros., $225,113. J. W. Armstrong is Engr. Filtration Div. Noted June 4.

✚**Brooklyn, Md.**—The contract for extending the water mains has been awarded by the Brooklyn & Curtis Bay Water Co. to RIGGS, DISTLER & STRINGER, 25 Light St., Baltimore, at $50,000. Noted Apr. 30.

★**Greensboro, Md.**—(Official)—Bids will be received until 1 p.m., July 9, for constructing a water system. Temple Smith, Greensboro, is Secy. Noted June 4.

Mount Olive, N. C.—The city contemplates constructing a water works and sewer system, estimated to cost $30,000.

Columbus, Ga.—Bonds for $450,000 for the construction of a municipal water system have been sold. Noted Jan. 22.

★**La Grange, Ga.**—(Official)—Bids will be received by J. D. Edmundson, Mayor, until 2:30 p.m., July 21 for installing a water works. James Nisbet Hazlehurst, Atlanta, is Consult. Engr. For details see advertisement under "Contracts To Be Let."

Quitman, Ga.—The citizens contemplate improvements to the water and sewer systems.

Bushnell, Fla.—The city contemplates installing a water system costing $12,000.

Clearwater, Fla.—Bids will be received about Sept. 1, by R. T. Daniel, Clk. for laying 10,000 ft. of water pipe. The estimated cost is $15,000. Noted June 11.

Crystal River, Fla.—The citizens have authorized the expenditure of $40,000 for the installation of a water system.

Tallahassee, Fla.—The city contemplates spending $47,000 for improvements to the water system and electric light plant.

Bay Minette, Ala.—Plans are being prepared by Edgar B. Kay, Consult. Engr., Montgomery, Ala., for the construction of a water works and a sewer system. The estimated cost is $35,000.

Cullman, Ala.—(Official)—At a recent election the citizens voted bonds for $30,000 for the improvement of the water system. A concrete dam, a pumping station, filter plant and a 100,000-gal. tank and tower will be constructed. John R. Baylis, 704 Farley Bldg., Birmingham, Ala., is Engr. Noted Mar. 5.

Hazard, Ky.—The Hazard Water Co. contemplates making improvements and enlarging its plant.

Akron, Ohio—(Official)—Bids will be received by C. P. Parker, Dir. of Pub. Serv., until noon, July 3 for laying c.-i. water pipe under Contract No. 56.

Cleveland, Ohio—(Official)—Bids will be received by the Commissioner of Purchases and Supplies, until noon, July 9 for furnishing stop cock boxes for the department of Public Utilities.

★**Cleveland, Ohio**—(Official)—Bids will be received by the Commissioner of Purchases and Supplies until noon, July 23 for constructing a concrete coagulant house and wash-water reservoir.

Columbus, Ohio—Bids will be received by S. A. Kinnear, Dir. of Pub. Serv., until noon, July 7 for furnishing materials for the alum plant under Contract No. 24. Jerry O'Shaughnessy is Supt. of the Water Works.

✚The contract for laying a water main in High St. has been awarded by the Board of Control to S. T. KNIGHT, at $29,860.

★**Columbus, Ohio**—(Official)—Bids will be received by S. A. Kinnear, Dir. of Pub. Serv., until noon, July 23, for the equipment now located in the West Side pumping station. For details see advertisement under "Contracts To Be Let."

Ironton, Ohio—The City Council contemplates purchasing Nixon Hill to be used for a reservoir for the proposed new water system.

Portsmouth, Ohio—(Official)—Bids will be received until July 9 for furnishing the following material: 2400 ft. of 8-in. c.-i. pipe; 300 ft. of 6-in. specials, 21 hydrants and 12,000 lb. of pig lead. George P. Chute, Portsmouth, is Engr. Noted May 28.

Michigan City, Ind.—Bids will be received until July 11 for constructing a 42-in. intake pipe 3000 ft. into Lake Michigan. Noted June 4.

Saranac, Mich.—Plans are being prepared by James R. Fitzpatrick, Engr., for the construction of a water system for Saranac.

★**Chicago, Ill.**—(Official)—Bids were received June 25 for the construction of Sec. 2, of the Wilson Ave. Tunnel as follows: M. H. McGOVERN CO., Chicago, at $1,243,130 (low bidder): Ulen Contracting Co., $1,282,002; Keystone State Construction Co., $1,343,471; Byrne Bros. Dredges & Eng. Co., $1,608,030; Oscar Daniels Co., $1,620,239; Joseph Hanreddy, $1,786,188. Noted June 11.

Litchfield, Ill.—The City Council has appropriated $75,000 for the installation of a water system at Litchfield.

Rock Island, Ill.—The City Commission will lay water main in the factory district. The estimated cost is $13,735. W. Treichler is City Engr.

Kenosha, Wis.—The Board of Water Commissioners contemplates installing new equipment in the water station to increase the supply; the plant for a larger intake has been dropped and the new centrifugal pump is being considered. B. C. Brennen is City Engr.

Manitowoc, Wis.—The City Council has authorized the extension of the water mains 20 blocks. The estimated cost is $10,000. E. K. Pitz is City Engr.

Des Moines, Iowa—Bids will soon be received for the construction of a water system. The estimated cost is $7000. G. T. Simpson is Consult. Engr. Noted June 4.

Morning Sun, Iowa—Press reports state that Harper & Stiles, Grand Ave., Temple, Kansas City, Mo., are preparing plans for the construction of a water system at Morning Sun.

Aurora, Minn.—The city will issue bonds for $15,000 for the improvement of the water system. Noted May 28.

Duluth, Minn.—According to press reports the City Council has authorized the laying of a 36-in. water main near the Lakewood pumping station. The estimated cost is $21,500.

Holton, Kan.—Plans are being prepared for the installation of a water system for which bids will soon be received. Worley & Black, Kansas City, Kan., are the Engrs.

✚**Nickerson, Kan.**—Contracts for installing a water and a sewer system have been awarded to the following companies: J. H. SHEARS & SON, Hutchinson, contract for sewer work, including laterals at $5926; SQUIRE ELECTRIC & CONSTRUCTION CO., water works, mains, and power house at $5394; UNITED STATES CAST IRON PIPE CO., c.-i. pipe water mains at $10,509; DES MOINES BRIDGE & IRON CO., water tank and tower at $3590; WORTHINGTON PUMP CO., pump and motors at $1715; LUDLOW VALVE CO., valves and hydrants at $1199. Bids opened June 12. Noted June 4.

✚**Veblen, S. D.**—(Official)—The contract for constructing a water system has been awarded to TANNER BROS., St. Paul, Minn. Noted June 18.

Winner, S. D.—At a recent election the citizens voted $30,000 in bonds for the improvement of the water system. Claude Maule is City Audr.

Carrington, N. D.—Bids will be received by the City Council until 7:35 p.m., July 10 for the extension of the water works. G. W. Meinmiller is City Engr.

Kirksville, Mo.—At a recent election the city authorized the expenditure of $25,000 for the installation of a water system. Noted June 18.

Neosho, Mo.—The citizens contemplate spending $60,000 for the improvement and extension of the water system. Albert C. Moore, Bartlett Bldg., Joplin, is Engr. Noted Oct. 16, 1913.

Palmyra, Mo.—The citizens contemplate spending $26,000 for extending the water system and electric light system.

Harrison, Ark.—(Official)—Bids will be received until 3 p.m., July 22 for $40,000 in water bonds and $30,000 in sewer bonds. George W. O'Neal is Secy. and M. A. Earl & Co., Muskogee, Okla., is Engr. Noted Jan. 15.

★**Killeen, Tex.**—(Official)—Bids will be received by the Mayor and City Council until July 13 for furnishing c.i. pipe and specials. For details see advertisement under "Contracts To Be Let."

Milford, Tex.—(Official)—Bids are being received by the mayor for the construction of a water system estimated to cost $14,000. Henry E. Elrod, Dallas, is Consult. Engr. Noted May 28, and June 25.

Nixon, Tex.—A. W. Norton & Son have been granted a franchise by the City Council for the construction of a water system at Nixon.

Boise, Idaho—The Little Willow Creek Irrigation Co. has filed application with the local land office for right of way over government land, for the construction of a reservoir and irrigation ditches. The estimated cost of the project is $220,000

Paris, Idaho—The citizens contemplate constructing a municipal water system.

Rigby, Idaho—The citizens contemplate spending $7500 for the construction of a water system. Henry Hill is Town Clk.

✚**Klamath Falls, Ore.**—The contract for constructing the Lost River Diversion channel of the Klamath Falls Irrigation Project has been awarded to W. M. MASON, Klamath Falls, at $13,922.

Warrenton, Ore.—(Official)—Bids will be received until 2 p.m., Aug. 3, by John Evenden, Clk. of Water Comn., for $150,000 in bonds for the construction of a gravity water system. Noted June 18.

Brawley, Calif.—Bonds in the sum of $35,000 have been authorized for the extension of the water mains. Noted Apr. 16.

El Monte, Calif.—Bids will be received by the City Trustees until 6 p.m., July 6 for constructing a municipal water system. I. Worth Everett is City Clk. Noted Feb. 15.

Garden Grove, Calif.—The three water companies of Garden Grove will consolidate and install a new water system.

Guernsey, Calif.—The Burke Ditch Co. has been organized to construct irrigation canals near Guernsey. J. M. Richard, Guernsey, is interested.

Oakdale, Calif.—The Oakdale Irrigation District contemplates spending $40,000 for the construction of laterals.

Richmond, Calif.—An election will be held July 22 to ratify an issue of $2,500,000 bonds. The proceeds will be used to bring water from the Sacramento River. Noted June 11.

Sacramento, Calif.—According to press reports the city contemplates extending the water system.

San Francisco, Calif.—Plans for tunnel and aqueduct lines, the Hetch Hetchy reservoir and the Cherry Valley reservoir for the city and county of San Francisco have been approved by Secretary Lane, Washington, D. C.

✚**Santa Barbara, Calif.**—(Official)—Bids were received June 15 by the Board of Water Commissioners for constructing a concrete foundation for the Gibraltar Dam, as follows: ARTHUR S. BENT CONSTRUCTION CO., 520 Central Bldg., Los Angeles, Calif., at $40,560 (awarded contract); Mesmer & Rice, $42,257; P. H. Ehlers, $44,015; Kling Co. & J. C. Beer, $43,643; S. M. Kerns, $39,643; Putnam-Stone Co., $51,708; Russell-Govern & Foell, $45,852. Noted June 11.

Susanville, Calif.—The Town Trustees contemplate purchasing the water system for $40,000. If the plant is purchased it will be enlarged.

Newmarket, Ont.—The City Council will extend the water system at an estimated cost of $15,000.

Orillia, Ont.—Bids will be received by W. K. Greenwood, until July 13, for furnishing gate valves, steel water pipe and c.i. water pipe and specials for the water system. Noted May 28.

Bids will be received by W. K. Greenwood until July 27 for furnishing motor-driven pumps, a Diesel oil engine and equipment for the water system. Noted May 28.

Ottawa, Ont.—The City Council contemplates making alterations to the new intake pipe costing $50,000.

Tilbury, Ont.—The Town Council contemplates installing a new water system and fire protection system. The mayor is in charge.

★**Guayaquil, Ecuador**—(Official)—Bids will be received by J. G. White & Co., Ltd., 9 Cloak Lane, London, E. C. England or 43 Exchange Pl., New York, N. Y., until July 20 for furnishing approximately 4000 tons of c.-i. water pipe with specials and fittings for the sanitation works of Guayaquil.

SEWERS

Milford, Maine—(Official)—Bids will be received by the Board of Selectmen until July 15 for constructing about 6935 ft. of sewer. Lond & Holmes, 15 State St., Bangor, are the Engrs.

✚**Boston, Mass.**—The contract for constructing sewers and drains in Lake St., Brighton District has been awarded by the Department of Public Works to McCARTHY & WALSH at $6778. Other bids were from, William L. Dolan, $6839; Daniel E. Lynch, $7080; James L. Bryne, $7093; M. H. Kelley, $7151; M. De Sisto, $7230; Antony Cefalo, $7290; George J. Regan, $7766. L. K. Rourke is Comr. Noted June 11.

★**Bridgeport, Conn.**—(Official)—Bids will be received by the Paving and Sewer Commission until 8 p.m., July 14, for constructing sewers in various streets. Bernard Keating is Secy.

Hartford, Conn.—(Official)—Bids will be received by the Board of Contract and Supply, City Hall, until July 7, for constructing the Homestead Ave., Intercepting Sewer and branches. R. N. Clark is City Engr. W. S. Brewer is Dir. Engr. in charge of sewers.

✚**Southington, Conn.**—The contract for constructing about 13.5 miles of sewers has been awarded to BERNARDINO & TOMASSETTI, at $108,222. Noted May 14 and June 25.

West Haven, Conn.—The following bids were received by the Board of Selectmen on June 24, for (a) the construction of about 35 miles of vitrified pipe sewers from 8-in. to 24-in. in diameter and (b) a pumping station and sewage disposal plant. Robert Dailey & F. F. Maher, New Haven, Conn., (a) $179,108, (b) $70,600; J. W. Hiller Construction Co., New York, N. Y., (a) $184,534; (b) $44,985; Atlantic Construction Co., New York, (a) $184,975; (b) $40,645; B. D. Pierce, Jr. Co., Bridgeport, Conn., (a) $187,164; Hanscom Construction Co., Boston, Mass., (a) $191,641; Connecticut Engineering Co., Norwich, Conn., (b) $47,712; Mason-Hilton Co., New York, N. Y., (b) $49,700; Clyde Potts, 30 Church St., New York, N. Y., is the Engr. and Walter A. Main, West Haven is First Selectman. Noted Mar. 5, May 28 and June 18.

✚**Albany, N. Y.**—The contract for constructing the Beaver Creek sewer and its branches has been awarded by the Board of Contract and Supply to the RIVERDALE CONTRACTING CO., at $65,945.

Lyons, N. Y.—The city voted $91,000 in bonds for a sewer system.

✚**Medina, N. Y.**—(Official)—Bids will be received by the Board of Sewer Commissioners until 8 p.m., July 14, for constructing an addition to the sewer system. Frank J. Kearney is Clk.

New York, N. Y.—(Borough of Brooklyn)—(Official)—Bids will be received by L. H. Pounds, Pres. of the Borough, until 11 a.m., July 8, for constructing sewer basins in various streets.

(Borough of Manhattan)—(Official)—Bids will be received by Marcus M. Marks, Pres. of the Borough, until 2 p.m., July 2, for constructing a sewer in East 38th St. between East River and First Ave.

(Borough of Richmond)—(Official)—Bids will be received by Charles J. McCormack, Pres. of the Borough, until noon, July 7, for constructing a temporary combined sewer in a section of John St.

Hightstown, N. J.—Bids will be received by the Common Council until July 7, for constructing sewers in Academy St., Mechanic St. and Third Ave.

★**Newark, N. J.**—(Official)—Bids were received by the Passaic Valley Sewerage Commissioners for constructing part of Section 9 of the Main Intercepting Sewer in Newark and Belleville as follows: Oscar Daniels Co., New York, N. Y., $220,280; Bruno & Pettiti, Belleville, N. J., $212,896; New York & New Jersey Construction Co., New York, N. Y., $187,380; Phœnix Construction Co., New York, N. Y., $173,335; P. H. & J. Conean, Newark, N. J., $156,677; Merrill-Ruckgaber Co., New York, N. Y., $113,780; Cauldwell-Wingate Co., New York, N. Y., $86,582. Noted June 11.

Paterson, N. J.—Bids will be received by the Board of Public Works, until July 7, for constructing sewers in various streets.

Trenton, N. J.—Bids will be received by the City Commission until July 8 for constructing a sewer in Race St., and until July 10 for constructing a sewer in Indiana Ave. Frank Thompson is City Clk.

✚**Oakdale, Penn.**—The contract for installing a sewer system has been awarded to the O'HERRON CO., Pittsburgh, at $23,473. Arthur M. Morgan, Harris Trust Bldg., Chicago, Ill. is Engr.

★**Tarentum, Penn.**—(Official)—Bids will be received by the Borough Council until 7 p.m., July 20, for constructing sewers and a sterilizing and pumping plant. W. F. Denny is Pres. of the Council. For further information see advertisement under "Contracts To Be Let." Noted June 25.

✚★**Baltimore, Md.**—The contract for constructing storm water sewers, under Contract No. 40, has been awarded by the Board of Awards to McCARTHY & O'HERRON, 14, West Oliver St. at $36,252. Charles England is Chn. of Sewage Comn. Noted June 4.

Mount Olive, N. C.—See item under "Water Supply and Irrigation."

Bay Minette, Ala.—See item under 'Water Supply and Irrigation."

✚★**Mobile, Ala.**—The contract for constructing about 19,000 ft. of sewers has been awarded to the JETT BROS. CONTRACTING CO., Mobile, at $13,221. Noted May 21 and June 21.

Stakerville, Miss.—(Official)—The city is having surveys made for a sewer system. John R. Balis, 704 Farley Bldg., Birmingham, Ala., is Engr.

Baton Rouge, La.—Bids will be received by the Mayor and Common Council until Aug. 1, for constructing about 36,000 lin.ft. of vitrified pipe sewers 6- to 12-in. in diameter.

Memphis, Tenn.—The lowest bid submitted to the City Commissioners was from W. L. Bryant, for constructing the Florida-Trigg sewer at $10,379 and the Meachtown sewer at $8153.

Akron, Ohio—The lowest bid received by the Director of Public Service, for constructing the sewage treatment plant was from J. C. Devine, Alliance at $520,000.

★**Cleveland, Ohio**—Bids will be received by the commissioner of Purchases and Supplies until noon July 8, for installing a mechanical self-cleaning screen, according to plans and specifications. Thomas L. Sidle is Dir. of Pub. Ser. Plans are on file at the office of Engineering News.

Miamisburg, Ohio—Cellarins & Dressler, Dayton, have been commissioned to prepare plans for a sewer system to cost about $100,000.

✚**Norwood, Ohio**—The contract for constructing the Serpentine Ave. storm sewer has been awarded to JOHN B. McLANE at $9800.

Piqua, Ohio—Bids will be received by Ray H. Heater, Clk., Board of Pub. Service, until July 9, for constructing a four-foot concrete sewer in Downing St.

✚**Sandusky, Ohio**—The contract for constructing the Monroe St. sewer has been awarded to M. J. CALLAN at $7298.

✚**Indianapolis, Ind.**—Press reports state that the contra for constructing the Pogues Run Drain has been awarded the DUNN-McCARTHY CO., Chicago, at $907,067. Note May 21.

✚**Aledo, Ill.**—The contract for constructing 9850 ft. and 8-in. tile sewers has been awarded to DALTON BRO Wilmette. W. S. Shields, 8 Dearborn St., is Engr. W. Emerson is City Clk.

Chicago, Ill.—(Official)—Bids were received by John M Gillen, Clk. of the Sanitary District, for constructing th North Shore intercepting sewer, under contract No. 3, fron Nash Bros., (a) concrete, $248,376; (b) brick, $255,896; Ule Contracting Co., (a) $249,988; Marquette Construction Co (a) $266,987, (b) $287,276; Nash Dowdle Co., (a) $637,308, (b $617,029. Noted June 11.

The following bids were received for constructing th Morton Grove sedimentation plant: John T. Walbridge En gineering Co., $9198; Nash Dowdle Co., $10,722; Schillinger Construction Co., $10,886; William Davidson, $12,253; J. M Corbett & Co., $13,961; Universal Construction Co., $14,61 U. S. Development Co., $16,565; J. J. Croake, $19,163.

Elgin, Ill.—(Official)—Bids will be received by the City until 10 a.m., July 6, for constructing about 37,000 lin.ft. o 6- to 15-in. sanitary sewers. Morgan H. Brightman is City Engr.

✚**Georgetown, Ill.**—The contract for constructing the proposed sewer system has been awarded to the CARSON-PAYSON CO., Danville, at $76,420.

Lockport, Ill.—Bids for the construction of a sewer outlet in Division St. will soon be asked for by the City Council. C. S. Calkins, Joliet, Ill. is Engr.

Manhattan, Ill.—The Board of Trustees contemplate the installation of a sewer system.

Superior, Wis.—The lowest bid received by the city for constructing a sewer in alleys between Missouri and Maryland Aves. and Belknays and 24th Sts. was from Rastoret & Co., at $11,983.

Grinnell, Iowa—The Iowa Engineering Co., Clinton, Iowa is preparing plans for the proposed sewer system.

Mason City, Iowa—Press reports state that bids will be received until July 5, for about 7400 lin.ft. of 15- 20- and 30-in. vitrified sewer pipe. J. Staunton is Mayor.

Mt. Ayr, Iowa—The city contemplates the installation of a sewer system to cost about $15,000.

✚**Perry, Iowa**—The contract for constructing the west side sewer system has been awarded to the KATZ CONSTRUCTION CO., Omaha, Neb., at $10,533. Charles E. Wilson is City Engr.

Stillwater, Minn.—Bids will be received by Lewis W. Clarke, City Engr. until July 7 for constructing sewers in Maple and Elm Sts.

Warrond, Minn.—George W. Walker, Thief River Falls, Minn. has been commissioned to prepare plans for the proposed sewer system.

✚**Fredonia, Kan.**—(Official)—The contract for constructing a sewer has been awarded to STACK & CURRY at $13,205. Worley & Black are Engrs. R. A. McGregor is City Clk. Noted May 7 and June 11

✚**Nickerson, Kan.**—It is reported that the contract for sewer construction has been awarded to J. H. SHEARS & SON, Hutchinson, at $5927. Noted June 11.

Olathe, Kan.—The City will soon award a contract for sewer construction estimated to cost $5500. Roy Murry is City Engr.

Carrington, N. D.—Bids will be received by the City Council until July 10 for building extensions to the sewer mains. G. W. Heinmiller is City Engr.

Helena, Mont.—The City Council contemplates the construction of sewers in various streets.

✚**White Sulphur Springs, Mont.**—The contract for installing a sanitary sewer system and sewage disposal plant has been awarded to C. H. KELLY, Kalispell, Mont., at $10,524. The Gerharz-Jaqueth Engineering Co., Great Falls, Mont., is Engr. Noted June 11.

Carthage, Mo.—The City Council has decided to construct a sewer system in the western section of the city.

Kansas City, Mo.—The city contemplates the construction of an outlet sewer, a septic tank and a sewer reduction plant. Curtis Hill is City Engr.

✚**Clarendon, Ark.**—(Official)—The contract for constructing a sewer system has been awarded to McKITCHEN BROS., McAlister, Okla., at about $55,000. Winters & Dove, Fort Smith, Ark., are the Engrs. Noted June 11.

✚**Houston, Tex.**—The City Council has awarded to HORTON & HORTON, Houston, the contract for constructing storm sewers in Elgin Ave. from Louisiana to Baldwin Sts., at $8818 also for storm sewers in McGowan Ave., from Smith to Albany Sts. at $26,754. Noted June 4, 1914.

✚**Houston, Tex.**—The contract for constructing a storm sewer in Hyde Park has been awarded to HUNTER & HUNTER, at $7000. Noted May 28.

Laredo, Tex.—The city contemplates the construction of two new storm sewers and extensions to the present sewers.

Pocatello, Idaho—The City Council has decided to spend $64,000, in constructing sewer extensions.

✚**Seattle, Wash.**—The contract for constructing a sewer in Ninth Ave., South, has been awarded to T. I. Peterson, at $17,289. Noted Mar. 5 and June 25.

Seattle, Wash.—George W. Walker, at $32,181, was low bidder for constructing a sewer in Waverly Place.

Spokane, Wash.—Plans have been completed for constructing sewers in 23d Ave., from Garfield Road to Grand Boulevard. The estimated cost is $5875.

✚**Tacoma, Wash.**—The contract for constructing sewers in the East End has been awarded to W. S. MURPHY, 1207 North K St., at $19,648.

Astoria, Ore.—Press reports state that the City Engineer is preparing plans for a trunk sewer to run from Ninth to 17th Sts.

Dallas, Ore.—The city has voted $7500 in bonds for constructing a septic tank. Noted Dec. 4, 1913.

Portland, Ore.—The City Council contemplates the construction of a trunk sewer in Willow and East 84th St. at an estimated cost of $109,793 and in Fulton Park and Carson Heights at an estimated cost of $47,706. A. L. Barbour is City Audr.

†Exeter, Calif.—The City Council has awarded a contract for the construction of a sewer system to C. D. VINCENT, Oakland, at $31,432. Noted June 4.

Fortuna, Calif.—The Town Trustees contemplate extending a concrete sewer diagonally across the city.

†Ocean Beach, Calif.—The contract for constructing a sewer system has been awarded to H. M. SHAFFER, San Diego, at $44,699. Cement pipe will be used.

Riverside, Calif.—The city will construct a sewer in the Hibington District to cost about $30,000.

Sacramento, Calif.—E. M. Wilder, City Engr. has completed plans for a sewage pumping station at Franklin and Riverside Aves. A reinforced concrete building will be constructed. The estimated cost is $125,000.

St. Lambert, Que.—Bids will be received by the Town Council until July 6, for the construction of storm and sanitary sewers. The estimated cost is $50,000. T. Drinkwater is Engr.

GARBAGE

†Norfolk, Va.—The Board of Control has awarded the contract to the NYE ODORLESS CREMATORY CO. for constructing two garbage crematories.

†Lansing, Mich.—The City Council, June 15, awarded the contract to H. E. WAGGONER, Huntington, Ind., for constructing the proposed garbage incinerator, at $30,000.

Coffeyville, Kan.—The city plans to construct a garbage incinerating plant to cost $4000. A. C. Gillam is City Engr.

Joplin, Mo.—The city plans to construct a garbage disposal plant. C. B. Anderson is City Engr.

Tropico, Calif.—The towns of Tropico, Glendale and Casa Verdugo plan to construct a community garbage incinerator.

South Vancouver, B. C.—The City Council will ask for bids soon for the construction of a 50-ton garbage destructor.

STREETS AND ROADS

Boston, Mass.—Bids will be received until July 7 by the State Highway Commission for building 6200 lin.ft. of road in Sudbury, 16,500 lin.ft. in Williamstown, and 4200 lin.ft. in Peabody. Arthur W. Dean, 15 Ashburton Pl. is Chief Engr.

†Boston, Mass.—Contracts have been awarded for building 4300 lin.ft. of state macadam road in Windsor and 10,000 lin.ft. of oil macadam road in Freetown to the HORNE LOWE CONSTRUCTION CO., Millbury, at $11,320, and S. L. CONEDY, Lakeville, at $12,687, respectively. Noted June 18.

†Boston, Mass.—(Official)—Contracts for paving Zeigler St. from Warren to Dearborn St. and Eustis St. from Dearborn to Magazine St., Roxbury have been awarded to JOHN F. BEATTY at $6029 and $14,579 respectively. Noted June 11.

Boston, Mass.—The city contemplates expending about $800,000 on street construction, as follows: Widening Chelsea St., Charleston; Norfolk St., Dorchester; Hyde Park Ave., Hyde Park, and North Beacon Ave., Brighton.

†Springfield, Mass.—The contract for constructing 11,627 sq.yd. of Bitulithic paving on a 5-in. concrete base has been awarded to ADAMS & RUXTON CONSTRUCTION CO.

†Woonsocket, R. I.—The contract for paving North Main and Winter Sts. has been awarded to SIMPSON BROS. CORPORATION, Boston, Mass., at $40,940. Noted May 21 and June 18.

†Bridgeport, Conn.—The City Council has awarded a contract to PAUL SVIHRA & SON, Beechmont Ave., for the construction of about 35,000 sq.ft. of concrete sidewalks in Seaside and Beardsley Parks.

Hartford, Conn.—Bids will be received by the State Highway Commission, State Capital, until 2 p.m., July 14, for the following state road work:

Huntington Township, about 5750 lin.ft. gravel or native stone macadam construction on the Huntington Center Road. Also 6750 lin.ft. gravel, native stone or trap rock macadam on the River Road. Plans are on file with the Town Clerk, Huntington.

Norwalk City, about 5840 lin.ft. warrenite, amiesite, hassam or concrete (plain or reinforced) construction on Winfield St. Plans are on file with the City Engineer, Norwalk.

Westport Township, about 4050 lin.ft. warrenite, amiesite, hassam or concrete (plain or reinforced) construction on the Old Highway. Plans are on file with the Town Clerk, Westport.

Fairfield Township and Bridgeport City, about 4470 sq.yd. warrenite, amiesite, bituminous concrete or asphalt pavement on Brooklawn Ave. Plans are on file with the Board of Public Works, Bridgeport.

Cornwall and Goshen Townships, about 10,150 lin.ft. special 3-in. native stone construction and 13,550 lin.ft. native stone resurfacing. Plans are on file at the office of R. S. Hulbert, Div. Engr., Winsted.

†Manchester, Conn. (South Manchester P. O.)—The contract for laying concrete walks and granite curbings, bids for which were received several days ago, has been awarded to the W. F. POTTER CO., North Haven, for about $16,000. Noted June 18.

★Albany, N. Y.—Bids were received by the State Highway Commission, 55 Lancaster St., June 25 for the construction of public highways by State Aid as follows:

Road No. 1175. Fairhaven Village, Cayuga County, 1.82 miles. J. H. Weidman, Syracuse, $33,299; Greece Conctruction Co., Rochester, $30,810; Chambers & Barnes, Rochester, $31,267; Ribstine-Holter Co., Rochester, $31,186.

Road No. 1195. Elmira City: Division & Grand Central Avenue, Chemung County, 1.14 miles. Conners & Gallivan, Elmira, $34,291; John Kelly Elmira, $25,534; Ballard & Mahara, Oneida, $35,954; James McGuigan, Elmira, $33,714; Holleran Bros., Elmira, $36,309; Edward W. Walsh, Elmira, $33,591.

Road No. 5340. East Branch-Sullivan County Line, Part 2, Delaware County, 6.84 miles. John F. Dolan Contracting Co., New York, $103,234; Nathan E. Young, Harpursville, $96,918; Ruddy-Saunders Co., Troy, $97,632; John DeMichael & Bro., Torrington, Conn., $100,375.

Road No. 5493. Batavia-Stafford, Part 2, Genesee County, 0.27 miles. S. V. R. Malcolm & Son, Medina, $7645; Witt & Blades, Hornell, $7142; J. W. Brennan Co., Geneva, $7460; Frank P. Brotsch Co., Rochester, $7318; Thomas Fitzgerald Co., Buffalo, $7155; Brooks & Julian, Rochester, $7216.

Road No. 1193. Lowville-Croghan, Lewis County, 9.17 miles. James L. Kehoe, Newburgh, $105,465; Joseph Mascetti, Torrington, Conn., $96,674; Winston & Co., Brown Station, $110,414; Burns Bros. & Baley, Watertown, $111,961.

Road No. 1191. Carthage-Maumburg, Part 2, Lewis County, 6.38 miles. A. J. Rockwood, Rochester, $64,598; Joseph Mascetti, Torrington, Conn., $58,960; James L. Kehoe, Newburgh, $64,254; Frank Arrigano & Bro., Middletown, Conn., $64,780; Fort Schuyler Construction Co., Utica, $62,667; Thomas O'Brien, Watertown, $67,697.

Road No. 1192. Naumburg-Croghan, Lewis County, 5.73 miles. Joseph Mascetti, Torrington, Conn., $59,613; James L. Kehoe, Newburgh, $67,139; Fort Schulyer Construction Co., Utica, $64,251; Newport Construction Co., Herkimer, $60,686; A. J. Rockwood, Rochester, $68,047; Burns & McConville, Ogdensburg, $64,121 and two others.

Road No. 5492. Hamilton-Bouckville, Madison County, 5.79 miles. Fort Schuyler Construction Co., Utica, $55,196; Newport Construction Co., Herkimer, $54,622; Paddleford & King, Sherburne, $53,234; Guy B. Dickson, Syracuse, $56,280; Olin T. Benedict, Pittsfield, Mass., $59,028; Winston & Co., Brown Station, $56,482; John De Michael & Bro., Torington, Conn., $56,241.

Road No. 5486. Oswego City-West Seneca St., West Bridge St., Oswego County, 1.13 miles. Thomas Hucknall & Co., Albion, $48,942; S. V. R. Malcolm & Son, Medina, $31,278; Ballard & Maher, Oneida, $48,579; Guy B. Dickinson, Syracuse, $46,580; Empire Contracting Co., Newark, $48,994; J. A. Culkin & Co., Oswego, $47,471.

Road No. 487. Oswego City: East Ninth and Oneida Sts. and State Road, Oswego County, 1.47 miles. Guy B. Dickison, Syracuse, $32,106 Thomas Hucknall & Co., Albion, $30,709.

Road No. 662. Rushville-Gorham, Ontario County, 6.06 miles. J. W. Brennan & Co. Inc., Geneva, $45,366; William H. Madden, Rochester, $44,232; Frank J. Foote, Nunda, $46,681; E. R. Weed & Son, Holley, $44,693; Thomas Hucknall & Co., Albion, $45,637; Thomas Grady, Rochester, $46,434 and ten others.

Road No. 1196. Gorham-Stanley, Part 2, Ontario County, 1.89 miles. Wood & Tompkins, Hilton, $16,642; Frank B. Brotsch, Rochester, $16,539; J. W. Brennan & Co., Geneva, $15,797; Thomas Hucknall Construction Co., Albion, $15,872; E. R. Weed & Son, Holley, $15,311; Wm. H. Madden, Rochester, $15,998 and four others.

Road No. 1119-A. Troy City-Spring Ave., Rensselaer County, 1.72 miles. Parker Hassam Paving Co., Worcester, Mass., $74,079; County Construction Company, Troy, $75,148; Edward Walsh, Troy, $73,566.

Road No. 1194. Rensselaer City-High St., Rensselaer County, 0.39 mile. James J. Rignay, Rensselaer, $6058; Olin T. Benedict, Pittsford, Mass., $7058.

Road No. 981-A. Defreestville-Couse, Rensselaer County, 3.14 miles. Roger B. Kennedy, Utica, $22,845; Olin T. Benedict, Pittsfield, Mass., $24,381; C. D. Dean, Albany, $23,338; County Construction Co., Troy, $23,327.

Road No. 1115-A, Road No. 1116-A. Castleton-Rensselaer, Parts 1 and 2, Rensselaer County, 1.91 miles. S. B. Van Wagonen, Rondout, $29,741.

Road No. 5497. Ogdensburg-Waddington, Part 1, St. Lawrence County, 9179 miles. A. J. Rockwood Co., Rochester, $126,603; Samuel Beskin, Beacon, $114,165; Richard Hopkins, Troy, $117,785; Y. H. Gill Co., Boston, Mass., $110,194; Spellman-Oliver Co., Chateaugay, $121,804; Burns Bros. & McConville, Ogdensburg, $114,014 and two others.

Road No. 5494. Schoharie Village-Main St., Schoharie County, 0.70 mile. Joseph P. Scanlon, Albany, $20,255.

Road No. 5488. Patchogue-Moriches, Suffork County, 12.89 miles. Gifford Construction Co., Jamaica, $173,902; Murray & Gardner, Center Moriches, $170,192; John J. Hart, Peekskill, $170,703; William Baker, Inc., New York, $170,139; Frank Arrigano & Bro., Middletown, Conn., $156,687; Samuel Beskin, Beacon, $169,318 and two others.

Road No. 5409. Monticello Village-Broadway and Jefferson St., Sullivan County, 1.56 miles. Heneboldt & Washington, Monticello, $52,973; Murray & Gardner, Center Moriches, $56,487; William P. McDonald Construction Co., New York, $55,921; Newton Paving Co., Trenton, N. J., $58,123; John I. McDonald Co., Mt. Vernon, $55,322.

Road No. 5253-C, Jasper-Addison Steuben County, 4.37 miles. J. G. Hayes, Hornell, N. Y., $48,674; Witt & Blades, Hornell, $50,808; Frank J. Foote, Munda, $46,626; T. H. Gill, Boston, Mass., $45,902; Bradley & Nolan, Corning, $52,297; McGuire & Fahey, Hornell, $48,073.

The following bids were received by the State Commission of Highways June 25, for the repair of public highways by State Aid:

Repairing Contract No. 660, Road No. 508, Selkirk-Coeymands, Albany County: Joseph P. Scanlon, Albany, $15,737; Beiotte & Marchese, Troy, $14,747; W. L. Lawton, Glens Falls, $15,438.

Repair Contract No. 530, Road No. 505, Norwich-North Norwich, Chenango County: Phelan & Sullivan, Utica, $18,520; Paddleford & King, Sherburne, $17,847; Nash & Griffin, Norwich, $18,452.

Repair Contract No. 667, Road No. 5092, Red Hook-Rhinebeck, Dutchess County: D. E. Lynch, Rhinebeck, $9658; John P. McDonald Co., Mt. Vernon, $10,395; Thomas J. Martin, Beacon, $9924; John F. Donovan, Saugerties, $10,136; R. B. Kain, Hopewell Junction, $11,152; Murray & Gardner, Center Moriches, $11,724; William Doyle, Saugerties, $9669.

Repair Contract No. 668, Road No. 841, Crown Point-Port Henry, Essex County:
Defiance Corporation, Ticonderoga, $6778; Richard Hopkins, Troy, $5548.

Repair Contract No. 661, Road No. 456, Little Falls-East Creek, Herkimer County; Road No. 5159, East Creek, Herkimer County; Road No. 5028, East Creek-St. Johnsville, Montgomery County: Flood & Van Wirt, Hudson Falls, $15,338; Jackson L. Richmons, Little Falls, $14,533; John P. Dugan & Co., Amsterdam, $16,353; R. D. Cooper, Little Falls, $14,376; Phelan & Sullivan, Utica, $14,574.

Repair Contract No. 666, Road No. 154, Chester-Vails Gate, Orange County: Schunnemunk Construction Co., Highland Mills, $5955; Murray & Gardner, Center Moriches, $6450; James L. Kehoe, Newburgh, $5828.

Repair Contract No. 651, Road No. 77, Albia-Wynantskill, Rensselaer County: Belotte & Marchese, Troy, $29,751; County Construction Co., Troy, $25,644; Edward Walsh, Troy, $30,381.

Repair Contract No. 577, Road No. 436, Jericho Turnpike-Plainview, Nassau County: Powers & Wheeler, Oyster Bay, $21,949; William R. Bross, Babylon, $23,356; H. J. Mullen Contracting Co., Jamaica, $22,106; Murray & Fardner, Center Moriches, $21,178.

Repair Contract No. 669, Road No. 9006, Pearl River-Nanuet, Rockland County: Aetna Contracting Co., Nyack, $26,671; DeGraffe & Hogeboom, Kingston, $29,467; Murray & Gardner, Center Moriches, $31,096.

Repair Contract No. 598, Road No. 441, Saratoga-Glens Falls, Saratoga County: W. H. Gaylor, Saratoga Springs, $20,350; W. L. Lawton, Glens Falls, $19,883; John De Michael & Bro., Torrington, Conn., $20,337; Flood & Van Wirt, Hudson Falls, $20,449; Champlain Construction Co., Saratoga Springs, $18,552.

Repair Contract No. 670, Road No. 5361, Yonkers-White Plains, Road No. 5321, White Plains-Rye, Westchester County: James Garafano & Son, Mt. Vernon, $9,355; William Doyle, Saugerties, $9148; William P. McDonald Co., New York City, $9835; Hughes & Gardner, North Tarrytown, $11,036; William F. McCabe Construction Co., White Plains, $8710; Murray & Gardner, Inc., Center Moriches, $10,1777.

Repair Contract No. 664, Road No. 54, Briar Cliff Manor-Echo Lake, Road No. 143 Echo Lake-Pines Bridge, Road No. 587, Mt. Kisco-Millwood, Westchester County: Hughes & Gardner, North Tarrytown, $5795; Murray & Gardner, Center Moriches, $6329; Wm. Doyle, Saugerties, $5578; Delta Contracting Co., Jamaica, $6025; James Garafano & Son, Mt. Vernon, $6124.

Repair Contract No. 665, Road No. 35, White Plains-Armonk, Road No. 20, White Plains-Cross Roads, Westchester County: Wm. Doyle, Saugerties, $3086; Hughes & Gardner, North Tarrytown, $4128; James Garafano & Son, Mt. Vernon, $4213; Delta Contracting Co., Jamaica, $4199; Murray & Gardner, Center Moriches, $5090; William F. McCabe Contracting Co., White Plains, $4195; William P. McDonald Co., New York City, $4213.

Repair Contract No. 663, Road No. 519, Mt. Kisco-Pleasantville, Westchester County: Hughes & Gardner, North Tarrytown, $9187; James Garafano & Bro., Mt. Vernon, $8815; Murray & Gardner, Center Moriches, $10,522; William P. McDonald Construction Co., New York, $8625; White & Colligan, Purchase, I8930.

Road No. 5356, White Plains-Village, Westchester County, 2.24 miles: John P. McDonald Construction Co., Mt. Vernon, $91,313; William F. McCabe Construction Co., White Plains, $89,753; John L. Hayes, Yonkers, $89,373; Murray & Gardner, Center Moriches, $92,450; James Garafano & Bro., Mt. Vernon, $92,762; Louis Patrillo, Mt. Vernon, $93,118, and five others.

Road No. 1160, Oneida-Munnsville, Part 1, Madison County, 4.96 miles: Stanley Construction Co., Buffalo, $40,226; Paddleford & King, Sherburne, $40,615; Ballard & Maher, Oneida, $41,364; Conroy & Nixdorf, Oneida, $41,819; Olin T. Benedict, Pittsfield, Mass., $40,541; Fort Schuyler Construction Co., Utica, $39,572, and two others.

✝Ithaca, N. Y.—A contract for paving has been awarded to MANNING & STRECKER, Troy, at $7800.

New York, N. Y.—(Official)—(Borough of the Bronx)—Bids will be received by Douglas Mathewson, Pres. of the Borough of the Bronx, Municipal Bldg., Crotona Park, until 10.30 a.m., July 10, for 125,000 gal. of asphalt road oil.

New York, N. Y.—(Official)—(Borough of Brooklyn)—Bids will be received by L. H. Pounds, Pres. Borough of Brooklyn, Room 2, Borough Hall, until 11 a.m., July 8, for repaving the following streets: Bergen St., Cropsey Ave., Midwood St. and Rockwell Place.

(Official—(Borough of Manhattan)—Bids will be received by Marcus M. Marks, Pres. of Borough of Manhattan, Room 2032, Municipal Bldg., until 2 p.m., July 3, for repaving Broadway from Manhattan St. to 135th St.

(Official)—(Borough of Richmond)—Bids will be received by Charles J. McCormack, Pres. of Borough of Richmond, Borough Hall, St. George, until noone, July 7, for 55,000 gal. of bituminous road surfacing material, 294 and 1829 tons of ¾-in. broken stone in Stone Districts Nos. 2 and 3, respectively.

North Tonawanda, N. Y.—Bids will be received by Norman N. Olile, City Clk., until 8 p.m., July 14, for the sale of $51,500 bonds for street improvements.

★✝Port Jervis, N. Y.—(Official)—The contract for paving Jersey Ave. and Pike St. has been awarded to the PORT JERVIS CONSTRUCTION CO., at $14.677. Other bids were Thomson-Wooster Co., Walden, $16.530; A. D. Osborn, Binghamton, $16.458, and Progressive Realty Co., Souderton, Penn., $14,907. Noted June 4.

★Poughkeepsie, N. Y.—(Official)—Bids will be received by the Board of Public Works, until 4 p.m., July 9, for paving Garden St. from Mill St. to Parker Ave. and for paving Jefferson St. from Union St. to Church St. E. W. Sylvester is Supt. of Pub. Wks.

✝Rochester, N. Y.—The contract for paving Cottage St. has been awarded to THOMAS HOLOHAN at $11,786.

✝Rome, N. Y.—The contract for paving Jay, John and River Sts. has been awarded to WARREN BROS. CO., at $33,220.

Metuchen, N. J.—(Official)—Bids will be received by the Borough Council until 8 p.m., July 6, for flagging about 15,000 lin.ft. with 2-in. blue stone. Charles B. Cartman is Borough Engr. Noted June 4.

✝Morristown, N. J.—The Board of Freeholders has awarded the following contracts for road paving: To FREDERICK S. SMITH, Madison Ave., at $17,424; to SALMON BROS., Denville and Pine Brook Road, at $11,490; to OSBORNE & MARSELLIS CO., Blackwell St., Dover, Main St. with brick, Main St. with amiesite, Boonton, Morris St., and the road from Madison to Cook's Bridge at $23,358, $13,607, $9877, $7182 and $11,088, respectively. Noted June 11.

✝Newark, N. J.—The contract for paving South 13th St., Lehigh Ave., South 18th St., 17th Ave., and Bragaw Ave., to the STANDARD BITULITHIC CO., at $16,717, $13,601, $25,019, $7033 and $16,322, respectively.

New Brunswick, N. J.—Bids will be received by the Board of Chosen Freeholders until 2.30 p.m., July 13, for constructing 8262 ft. of concrete pavement on the Roosevelt-Woodbridge Road. A. J. Gebhardt is Dir.

✝Allentown, Penn.—GEORGE H. HARDNERS, has been awarded the contract for paving three blocks of street with amesite, on a 5-in. concrete base, at $1.75 per sq.yd.

Harrisburg, Pa.—(Official)—Bids will be received until 10 a.m., July 21, at the office of the State Highway Dept., Capitol Bldg., for the following road construction:

Ridgway Borough, Elk County—6111 ft. beech block paving 16 ft. wide.

Telford Borough, West Rockhill Township, Bucks County—12,065 ft. amiesite-warrenite-filbertine unionite and asphaltic bituminous macadam (penetration method) 16 ft. wide.

Milford Township, Somerset County—5000 ft. water-bound macadam an dasphaltic bituminous macadam (penetration method) 16 ft. wide.

Bristol Township, Bucks County—5524 ft. amiesite-warrenite-filbertine-unionite and asphaltic bituminous macadam (penetration method) 16 ft. wide.

Summit Township, Somerset County—5256 ft. asphaltic bituminous macadam (penetration method) 16 ft. wide.

Franklin Township, Greeen County—15,063 ft. brick block pavement, 16 ft. wide.

Blossburg Borough, Tioga County—10,907 ft. brick block pavement, 16 ft. wide.

Allegheny Township, Westmoreland County—15,450 ft. water-bound macadam, 16 ft. wide.

Jackson Township, Venago County—2796 ft. brick block pavement, 14 ft. wide. E. M. Bigelow is Comr.

★✝Scotdale, Penn.—(Official)—The contract for improving Mulberry and Merchant Sts. has been awarded to L. H. HILEMAN & CO., Ford City, at $7718. Noted June 4.

Vandergrift, Penn.—Bids will be received by the Town Council until July 6, for paving Sherman, Columbia, Grant and Washington Aves.

★West Hazleton, Penn.—(Official)—Bids will be received by the Borough Council until 7 p.m., July 3, for paving. For particulars see advertisement under "Contracts To Be Let."

Wilmington, Del.—Highway bonds to the amount of $100,000, voted on June 23, were sold.

Towson, Md.—Bids will be received by the County Commissioners until July 2 for improving two miles of the Paper Mill Road; one mile of the Freelands Road and 10 miles of the Hartford Road from Parkville to Rickford.

New Martinsville, W. Va.—(Official)—Bids will be received by the County Court and County Engineer of Wetzel County, until noon, July 18, for grading 25 miles of road in Grant District, in the vicinity of Jacksonburg. A. D. Williams is Chief Road Engr.

Haynesville, Ala.—(Official)—Bids will be received by the Board of Revenue until noon, July 13, for improving public roads. D. C. Leatherwood is Clk.

Jasper, Ala.—An election will be held July 13, to vote on the proposition to issue $250,000 in bonds for road construction in Walker County.

Clarksdale, Miss.—Bids will be received by S. L. Carr, County Clk., until noon July 6 for the sale of $100,000 of road and bridge bonds.

Gulfport, Miss.—Bids will be received by M. P. Bouslog and H. Gardner, Commissioners of Roads, Harrison County, until July 6, for road work in District No. 2.

Hahnville, La.—An election will be held July 14, to vote on $100,000 in bonds for road construction in Road District No. 3, St. Charles County.

Ripley, Tenn.—An election will be held July 14, to vote on $15,000 in bonds for street improvement.

Danville, Ky.—Bids will be received by W. P. Caldwell, County Road Engr., until 9 a.m., July 14, for furnishing gravel and stone on different pikes of Boyle County.

Louisville, Ky.—Bids will be received by the Board of Public Works until July 6 to pave parts of Schwartz, Bloom and Bellaine Sts. and Duker Ave. with asphalt. The estimated cost of the work is $32,000.

✝Versailles, Ky.—L. W. HANCOCK & CO., Louisville, have the contract for paving with brick two blocks on Main St. at $12,720. Noted May 14 and 21.

Akron, Ohio—(Official)—Bids will be received by the Board of County Commissioners, until 11 a.m., July 10, for grading, draining, curbing and paving the Arlington and Loyal Oak Roads. C. L. Bower is Clk.

Ashtabula, Ohio—Bids will be received by M. H. Turner, Dir. of Pub. Ser. until noon, July 3, for improving Kingsville Ave. from Topper Ave. to the State Road.

Cincinnati, Ohio—(Official)—Bids will be received by Philip Fosdick, Dir. of Pub. Ser. until noon July 10 for oiling a number of streets and roads.

+Columbus, Ohio—The CLEVELAND TRINIDAD PAVING C... Cleveland has been awarded the contract for paving ...th Street from Livingston Ave. to the Viaduct at $105,659. N...ed June 11.

+Delaware, Ohio—(Official)—The contract for road con...truction has been awarded to J. S. EDWARDS, Sunbury, at $...380. Noted Apr. 30.

Edon, Ohio—(Official)—Bids will be received by H. L. R...ster, Village Clk., until noon, July 24, for paving Michigan Ave. from the Wabash R.R. to the North Corporation Line and Indiana St. from Union St. to the East Corporation Line.

Ghent, Ohio—Bids will be received by F. Bechtel, Village Clk., until noon, July 6, for the sale of $15,500 of street improvement bonds.

+Marysville, Ohio—(Official)—The contract for improving the Highland and Cray Roads has been awarded to J. M. SNOUFFER, Columbus at $16,486. Noted June 25.

Perrysburg, Ohio—(Official)—Bids will be received by John W. Lyons, Village Clk., until noon, July 22, for paving Louisiana Ave. from the southerly line of Indiana Ave. to Grassy Creek.

Pioneer, Ohio—(Official)—Bids will be received by the City Council until noon, July 16, for paving 13,760 sq.yd. The Smith-Boulay Co., 322 The Nasby, Toledo, is Engr.-in-Charge.

+Ruggles, Ohio—(New London P. O.)—(Official)—The contract for improving 5.2 miles of road has been awarded to C. MALOY, Nova. Noted June 18.

+Toledo, Ohio—The contract for resurfacing Lewis Ave. with macadam has been awarded to M. P. HAMLIN at $14,824.

Toledo, Ohio—(Official)—Bids will be received by the Board of County Commissioners, Court House until 10 a.m., July 14, for improving Clark Ave. in Adams Township.

Bloomington, Ind.—(Official)—Bids will be received by the Common Council until 7:30 p.m., July 9, for improving East Kirkwood Ave. Horace Blakely is City Clk.

Brownstown, Ind.—(Official)—Bids will be received by the Town Trustees, until 7:30 p.m., July 13, for grading and paving Stout St. with gravel. A. L. Lucas is Town Clk.

+Connersville, Ind.—(Official)—The contract for constructing a gravel road has been awarded to D. H. FATOUT, Indianapolis at $15,450. Noted June 11.

Gary, Ind.—Bids will be received by W. J. Fulton, City Engr., until July 6, for improving Sixth and 11th Aves. and two alleys. The cost will be approximately $30,163.

Bids will be received by W. J. Fulton, City Engr., until July 22, for improving Pennsylvania St., 25th Ave. and one alley. The estimated cost is $52,975.

+Greenfield, Ind.—(Official)—The contract for constructing a highway on the Madison and Hancock County line has been awarded to JOHNSON & BRONNURBUG, Anderson, at about $18,000. Other bids were: Greenfield Bridge & Sewer Co., $20,759; D. H. Fatout, $21,536; Walker & McMahan, $21,128, and J. D. Reasin & Co., $18,992. Noted May 28.

Lebannon, Ind.—Bids will be received by the Common Council until 7:30 p.m., July 13, for grading and paving West South St.

+Logansport, Ind.—The contract for paving High and Market Sts. has been awarded to the ANDREWS ASPHALT PAVING CO., Hamilton, Ohio, at about $115,000.

+Salem, Ind.—The contract for paving East Market St. has been awarded to the MILROY CONSTRUCTION CO., at $11,000. Noted June 18.

South Bend, Ind.—Bids will be received by the Commissioners of St. Joseph County until 11 a.m., July 13, for constructing a gravel road in Union Township. Clarence Sedgwick is Audr.

+Marshall, Mich.—(Official)—The contract for paving East and West tSate St. has been awarded to the ANDREWS ASPHALT PAVING CO., Hamilton, Ohio, at $55,090. The Smith & Boulay Co., 322 The Nasby, Toledo, Ohio, is Engr.-in-Charge. Noted June 11.

+Palmer, Mich.—A contract for contracting ten miles of road has been awarded to J. E. BLOMGREN, Norway, at approximately $25,000.

Allison, Ill.—Bids will be received by J. L. McAndrew, Clk., until July 18 for gravel roads. The estimated cost of the work is $12,000. John Spiker, Noble Block, Vincennes, Ind., is Engr.

+Galesburg, Ill.—The contract for paving Losey and West Losey Sts., has been awarded to P. H. TIERNAN, Macomb, at $47,948.

+Rockford, Ill.—(Official)—Bids will be received by W. W. Bennett until 11 a.m., July 9, for constructing approximately 14,277 sq.yd. of brick pavement and 7300 lin.ft. concrete curb and gutter.

Springfield, Ill.—(Official)—Bids will be received by the State Highway Commission until noon, July 8, for State Aid work in Coles, Peoria, Livingston and Champaign Counties.

+Eau Claire, Wis.—The contract for reinforced-concrete paving has been awarded to the CAST STONE CONSTRUCTION CO., at $10,547. Other bids were A. Larson, $11,027; Thos. Wooley, La Crosse, $12,287; Fred Eul, Neenah, $12,929, and Widell Co., Mankato, Minn., $11,989.

+Kenosha, Wis.—Contract has been awarded to GEORGE R. WADE for the construction of concrete pave...ent on Park Ave. at $5335 and Lake Shore Road at $72,947.

Manitowoc, Wis.—Bids will be received by A. Reichert, City Clk. until July 3, for improving 25th St. between Clark and Wollmer Sts.

Watertown, Wis.—Bids will be received until July 17, at office of Board of Public Works for constructing about 7000 sq.yd. of concrete pavement on North Second St.; 4371 ft. curb and gutter; 2500 yd. excavating.

+West Salem, Wis.—The contract for paving Hamilton St. with concrete has been awarded to THOS. E. WOOLEY, La Crosse, at $11,565.

Dubuque, Iowa—(Official)—Bids will be received by J. J. Shea, City Recdr., until 8 p.m., July 2, for improving Locust and South Locust Sts., and Southern Ave.

Mason City, Iowa—Bids will be received by J. H. McEwen, City Clk., until 10 a.m., July 6, for paving 26,700 sq.yd. and curbing 14,300 lin.ft.

Schleswig, Iowa—Bids will be received by B. S. Anderson, Town Clk., until 8 p.m., July 7, for constructing concrete crossings.

Wapelo, Ia.—Bids will be received by H. W. Baker, County County Audr., until 11 a.m., July 15, for grading Section "E" of the Wapello Newport County Road, Section "H" of the Wapello-Columbus City County Road, and Sections "B" and "C" of the Newport to the Morning Sun County Road.

Aitkin, Minn.—Bids will be received by J. B. Lemire, County Audr., until 10 a.m., July 14, for grading and ditching 2½ miles of road.

Alexandria, Minn.—Bids will be received by the Board of Commissioners, until 10 a.m., July 17, for building and improving State Road No. 1. E. J. Brandt is County Audr.

Anoka, Minn.—Bids will be received by Arthur A. Caswell, County Audr., until 2 p.m., July 13, for surfacing 860 sq.yd., graveling 954 sq.yd., and macadamizing 954 sq.yd. on Central Ave.

Duluth, Minn.—(Official)—Bids will be received by R. Murchison, Comr. of Pub. Wks. until 10 a.m., July 6 for improving South First Ave. and Sutphin St.

Grand Rapids, Minn.—Bids will be received by M. A. Spang, County Audr., until 10 a.m., July 13, for construction work on State Road No. 1.

Ivanhoe, Minn.—Bids will be received by Karl A. Hansen, Audr., Lincoln County, until 1 p.m., July 11, for constructing State Rural Highway No. 54.

Olathe, Kan.—The Johnson County Board will receive bids until 11 a.m., July 8, for the improvement of the W. F. James Road. The cost is estimated at $10,000.

+Falls City, Neb.—The contract for paving District No. 8 has been awarded to BOHRER BROS., at $18,000. Noted June 18.

University Place, Neb.—Bids will be received by C. C. Gates, City Clk., until 8 p.m., July 7, for paving ten blocks of St. Paul Ave.

Billings, Mont.—Bids will be received by the City Clk. until July 7, for paving the eastern end of First Ave. North. The estimated cost of the work is $14,000.

+Harlowtown, Mont.—(Official)—The contract for constructing sidewalks, retaining walls, etc., has been awarded to L. W. SCHRUTH, Fargo, N. D., at $14,532. Other bids were: Miracle-Tripp, $17,010; R. M. Bardsen & Co., $17,274; J. W. Maitland, $17,454; Biley & Heaton, $17,876, and Miracle Construction Corporation, $18,471. Noted June 18.

+St. Joseph, Mo.—Contracts for paving 28th St., from Lafayette to Monterey St., to the METROPOLITAN PAVING CO., at $29,200, and Hanson Ave., 28th and Plattsburg Sts., to the STANDARD CONSTRUCTION CO., at $22,876.

+Webster Groves, Mo.—The contract for improving Greeley Ave. has been awarded to FOXHALL P. McCORMICK at $5000.

+Houston, Tex.—The contract for improving Rusk Ave. to EUREKA PAVING CO. Carter Bldg., at $29,768; Congress St. to UVALDE ROCK ASPHALT CO., 528 Binz Bldg., at $25,494, and Wood St., to the TALBOT CO., at $39,000.

McKinney, Tex.—Paving bonds for the amount of $125,000, voted on June 1, have been sold.

Mason, Tex.—An election will be held July 7 to vote on the question of issuing road bonds.

+Waco, Tex.—(Official)—See item under Bridges.

Waxahachie, Tex.—The citizens will vote July 18 to issue $90,000 in bonds for road construction.

+Kingman, Ariz.—The contract for building roads throughout Mohave County has been awarded to A. A. JOHNS and J. T. TRENBERTH, Priscott, at approximately $100,000.

+Mt. Vernon, Wash.—The contract for constructing the McMurry-Montbourne Road has been awarded to HERMAN BURMASTER at $48,095.

+North Yakima, Wash.—The contract for paving Division St. has been awarded to W. M. WALKER, at $9458.

Olympia, Wash.—Bids will be received by the State Highway Board until 2 p.m., July 6, for sudfacing approximately 13.5 miles of Sunset Highway from Wenatchee northerly in Douglas County.

Pasco, Wash.—Bids will be received by the County Commissioners until July 6 for constructing two miles of permanent highway at Connell.

+Seattle, Wash.—Contracts for constructing the Des Moines-Pierce County Road and the Derby-Woodinville Road have been awarded to the MATTSON-CARLSON CO., Tacoma, at $64,399 and to PAUL GRAY at $12,666 respectively. Noted June 11.

+Contracts have been awarded for paving East 72d St. to KROGH & JESSEN at $18,720; First Ave. South to the ROLLINS INVESTMENT CO., Henry Bldg., at $19,019.

+South Bend, Wash.—The contract for paving Water St. has been awarded to ROSS & MUMFORD, at $5853.

+Tacoma, Wash.—The contract for paving South 23d St. from J to Wilkeson St. has been awarded to JOSEPH WARTER, SR., at $26,750. Other bids were Washington Paving Co., $26,964; W. J. Murphy, $31,750, and McHugh Contracting Co., $29,400.

+Oregon City, Ore.—The Clackamas County Court has awarded a contract for the reconstruction of the Lazelle road to HENRY CROMER at $6000.

Portland, Ore.—The County Commissioners of Multonah County will shortly receive bids for the hard-surfacing of the Base Line Road. The estimated cost is $123,561.

✚**Coronado, Calif.**—The contract for improving the Ocean Blvd. has been awarded to the FAIRCHILD-GILMORE-WILTON CO., at $40,000.

✚**Eureka, Calif.**—The contract for constructing five miles of road has been awarded to FRANK H. GREEN, at $18,000.

✚**Los Angeles, Calif.**—The contract for improving First St., from Evergreen Ave. to the East City Limits has been awarded to the FAIRCHILD-GILMORE-WILTON CO., at $27,445.

✚**Manhattan Beach, Calif.**—The contract for improving First St., from Manhattan Ave., to the Santa Fé right-of-way has been awarded to the BARBER ASPHALT CO., at $15,381.

✚**Sacramento, Calif.**—(Official)—Contracts for constructing roads in fuor counties have been awarded as follows:
Shasta County, about 9.9 miles to be graded to F. ROLANDI, San Francisco at $63,245.
Glenn County, about 7 miles of concrete pavement to P. H. HOARE, Oakland at $37,218.
Butte County, about 11.2 miles of concrete pavement to P. L. BURR, San Francisco at $55,613.
Tehama County, about 8.8. miles of concrete pavement to M. JACINTO, A. L. DA ROZA & T. M. BURNS, Sacramento at $53,679. Noted May 21 and June 18.

San Francisco, Calif.—Bids will be received by the Board of Public Works until July 8 for improving Twenty-Second Ave. from California to Clement, Nineteenth Ave. from Lake to California and on Geary St. from Twenty-ninth to Thirtieth Ave. Frederick J. Churchill is Secy of the Board.

San Francisco, Calif.—M. M. O'Shaughnessy, City Engr., is preparing plans to construct a road to the Hetch Hetchy dam site. The estimated cost of the work is $175,000.

✚**San José, Calif.**—The contract for paving San Salvador St. has been awarded to the RANSOME-CRUMMEY CO., at $20,605.

Tulare, Calif.—Bids will be received by E. Oakford City Clk. until July 6 for street paving, the cost of which will be about $60,000.

✚**St. John, N. B.**—The contract for paving Main St. has been awarded to B. MOONEY & SONS, Queen St., at $26,797.

★**Sandwich, Ont.**—The contract for constructing reinforced-Concrete pavement has been awarded to LENANNE BROS., Detroit, at $40,000.

✚**Sault Ste. Marie, Ont.**—The contract for constructing $4,000 sq.ft. of concrete sidewalks has been awarded to the MAPLE LEAF PAVING CO.

✚**Willand, Ont.**—A contract for constructing 34 miles of the county good roads system has been awarded to the STANDARD CRUSHED STONE CO., Niagara Falls, at $4850 per mile. Noted May 14.

✚**Morris, Man.**—(Official)—The contract for grading and building the Pembina Highway has been awarded to SHERMAN & SIMPSON, Winnipeg, at $7595. Other bids were J. G. Hargrane, Winnipeg, $7706; McCrindle & Browning, Winnipeg, $9721. Noted June 18.

South Vancouver, B. C.—The following bids were received by the City Council for paving Bodwell Road: Harrison & Ball, $39,985; Henry J. Kaiser, $39,057, and Dominion Creosoting Co., $45,000.

INDUSTRIAL WORKS

✚**Brockton, Mass.**—The contract for the construction of a 40x120-ft., two-story brick and stone building, on Perkins St., for the Empire Laundry, has been awarded to W. D. LONG, 73 North Warren Ave., Brockton, at $20,000.

Holyoke, Mass.—Samuel M. Green, Inc., Springfield, Mass., is preparing plans for the construction of a four-story, 100x150-ft addition to the plant of the Germania Mills, on Jackson St.

Stoughton, Mass.—Bids will be received by the Panther Rubber Co. until July 6 for the construction of an addition to its plant on Monk St. Estimated cost, $15,000.

✚**Sutton, Mass.**—The Providence Drapery Rod Co. has awarded a contract to the KING CONSTRUCTION CO., Harvard St., Boston, Mass., for a one-story and basement, 40x108-ft., factory. The cost is $20,000.

Chester, Conn.—Bates & Sons are planning the erection of two additions to their plant, one 50x70 ft., two stories, and the second 25x25 ft., one story. Both will be of brick mill construction.

New Britain, Conn.—Plans have beeen completed for an office and storehouse on Chestnut St. for the Rogers Sash & Door Co. The structure will be three stories and basement, 115x60 ft., of brick mill construction. Unkelbach & Perry, 162 Main St., New Britain, are the Archs.

New Britain, Conn.—W. W. Hanna, Main St., will build a 95x145-ft. brick garage.

New Haven, Conn.—Estimates are being received for a garage on State St. for C. B. & G. S. Yale. It will be of brick and steel, one-story high, 100x116 ft., with an ell 28x37 ft. for the office. The cost is estimated at $15,000. C. F. Townsend, 129 Church St., is the Arch.

Batavia, N. Y.—The Batavia Sanitary Bed & Mattress Co. will build a two-story factory at Center and School Sts. William F. Bohm is the proprietor.

Buffalo, N. Y.—The Ralston Purina Co., Gratiot and Eighth Sts., St. Louis, Mo, will build a $500,000 milling plant in Buffalo. It will include a 500,000-bu. grain elevator, and two mills, one with a daily capacity of 20 carloads and one of 50 carloads per week.

✚**Buffalo, N. Y.**—The Pratt & Letchworth Co., Tonowanda St. and the New York Central R.R., has awarded a general contract to the HUNKIN-CONKEY CONSTRUCTION CO. for a one-story, 43x320-ft. brick and steel addition to its plant.

Cortland, N. Y.—W. H. Smith will construct a canning factory to cost about $12,000.

Greenport, N. Y.—T. E. Burns, F. H. Tasker, Brewster Smith and W. T. Griffing are a committee of the local Board of Trade, which has been appointed to negotiate with a Seattle firm regarding a site. The firm manufacturers [illegible] burning boilers and will build a $25,000 factory.

✚**Jamestown, N. Y.**—The general contract for building [illegible] addition to the plant of the Acme Worsted Mills Co. [illegible] been awarded to CHARLES HAAS at about $25,000. L. Butman is Gen. Mgr.

New York, N. Y.—(Borough of Brooklyn)—The Gret[illegible] Corporation will build a seven-story factory, at Berry a[illegible] South Fifth Sts., Williamsburg.

New York, N. Y.—(Borough of Brooklyn)—The Vitagra[illegible] Co., 116 Nassau St., New York, N. Y., will build a four-st[illegible] brick addition to its plant, at Liberty and Locust Aves. T[illegible] cost will be $50,000. W. L. Stoddard, 40 West 38th St., N[illegible] York, N. Y., is the Arch.

New York, N. Y. (Borough of Manhattan)—Bids are b[illegible] ing received by Albert E. Davis, Arch., 258 East 138th S[illegible] for the construction of a factory at 137th St. and Souther[illegible] Blvd. for Winters & Co. Estimated cost, $10,000.

Syracuse, N. Y.—Plans are being prepared by Merrill [illegible] Conway, Arch., 211 Furman St. ,Syracuse, for the construction of a three-story, 72x95-ft factory for the New Process Gear Corporation. Estimated cost, $40,000.

Gloucester, N. J.—William Steele & Sons Co., Arch., 160[illegible] Arch St., Philadelphia, Penn. ,is preparing plans for the construction of buildings at Gloucester for the Campbell Soup Co. Estimated cost, $150,000.

Jersey City, N. J.—The Nagle Packing Co. will build $100,000 beef packing plant on 20th St.

Jersey Shore, Penn.—The Susquehanna Silk Mills will build a new mill building and an addition to the weave shed. They will be of brick mill construction, with sawtooth roofs, and are estimated to cost $80,000. The Samuel M. Green Co., Springfield, Mass., are the Engrs.

Newark, N. J.—The Broham Co., Center St., manufacturer of infants' wear, will build a three-story and basement addition to its plant.

Newark, N. J.—The Newark Poster Advertising Co. has purchased a site at King and Miller Sts., on which it will build a two-story 125x130-ft. factory.

Paterson, N. J.—The Lipp Machine Co., Warren St. and the Erie R.R., will build a $40,000 addition to its plant.

✚**Paterson, N. J.**—The M. H. Ellenbogen Shirt Mfg. Co., has awarded a contract at $41,000, to the JOHN W. FERGUSON CONSTRUCTION CO., for a five-story factory.

Paterson, N. J.—Bids are being received by L. S. Beardsley, Arch., 38 West 32d St., New York, N. Y., for the construction of a two-story, 60x75-ft. addition to the bakery of the Consumers' Baking Co., 534 Ellison St. Estimated cost, $30,000.

The Sipp Machine Co. will build a $40,000 addition to its shops.

Allentown, Penn.—(Official)—F. C. Kolb will soon begin building a three-and-one-half-story and basement, 110x160-ft., bakery. Charles Balderston, 411 Walnut St., Philadelphia, Penn., is the Arch. Noted June 25, under Reading, Penn.

Manayunk, Penn.—(Philadelphia Post Office)—The Martin & W. H. Nixon Paper Co. will build a one-story, 180x200-ft. brick factory, to cost about $40,000.

Philadelphia, Penn.—P. M. Colen will build a three-story, 70x100-ft. brick and concrete commercial garage, at 20th and Brandywine Sts. M. Boyle is the Arch.

✚JOHN N. GILL, 1213-15 Filbert St., was awarded the contract for constructing a five-story, 53x36-ft. reinforced concrete warehouse addition for the Miller North Broad Storage Co., 2715 North Broad St.

William & Charles Bochtold will build a two-story, 60x118-ft. laundry on Fox St. The cost is estimated at $15,000.

✚**Philadelphia, Penn.**—J. Sullivan & Sons, Ninth and Susquehanna Aves., have awarded a contract to the TURNER CONCRETE STEEL CO., 1713 Sansom St., for a five-story, 50x208 ft., reinforced-concrete factory.

Baltimore, Md.—Plans are being prepared by Otto G. Simonson, Arch., Maryland and Casualty Bldg., Baltimore, for the construction of a two-story laundry for Harry McInnes. Estimate dcost, $20,000.

The Standard Oil Co. of New Jersey will build a two-story, 60x200-ft. rendering building and a two-story and basement, 80x100-ft. cooperage shop.

✚**Cincinnati, Ohio**—The contract for the construction of a concrete addition to the Andrew Jergens soap factory, to be built on Spring Grove Ave., has beeen awarded to ROCHE-BRUNER BUILDING CO., Cincinnati. Harry Hake, Provident Bank Bldg., is Arch. Noted June 25.

Cleveland, Ohio—The Euclid Seventieth Co. will build a six-story automobile storage house, on Euclid Ave. and 70th St. The cost will be $75,000.

Columbus, Ohio.—The Columbus Die, Tool & Machinery Co. will build a one-story factory, to cost $30,000. F. L. Packard, New Hayden Bldg., Columbus, is the Arch.

Dayton, Ohio—The J. C. Ely Printing Co. will build a 60x90-ft. plant, at a cost of $60,000. Schenck & Williams, Dayton, are the Archs.

Sandusky, Ohio—The Cleveland, Sandusky Brewing Co. plans the erection of a new brick building on Water St., in the rear of the Graham Block. The building will be two stories and will extend 80 ft. deep, with two storerooms on the frontage.

Springfield, Ohio—The Ansted & Burk Co. is having plans prepared for a four-story addition to its plant. It will be 64x23 ft., brick and reinforced concrete. Robert C. Gotwald, Springfield, is Arch.

Milwaukee, Wis.—Schnetzky & Son, Archs., are receiving bids on an office, salesroom and factory building for the Franzen Investment Co., to be occupied by Patek Bros., on East Water St., near Buffalo St. It will be of brick and reinforced concrete, four-story and basement. Estimated cost, $100,000.

Wausau, Wis.—The Badger Bag & Paper Co. will construct a two-story and basement, 132x146-ft. factory. Estimated cost, $30,000. L. A. De Quere, Wood Block, Grand Rapids, is the Arch.

+Davenport, Iowa—Ewert & Richter, East Fourth St., have awarded a contract at $60,000, to the PARSONS CONSTRUCTION CO., Omaha, Neb., for a six-story, 60x150 ft., warehouse. It will be of mushroom, flat-slab construction. Contracts for plumbing, heating, a sprinkler system and electrical fixtures are yet to be awarded, at about $12,000.

Independence, Kan.—The National Sash & Door Co., of Coffeyville, Kan., will establish a plant at Independence.

+Kansas City, Mo.—THE SWENSON CONSTRUCTION CO., Kansas City, has been awarded the contract for the $250,000 building to be erected at 21st St. and Grand Ave. for the Coca-Cola Co.

Bids are being received by Smith, Rea & Lovitt, Archs., Finance Bldg., for the constructio nof a one-story, 118x200-ft. factory for Ingle Bros.

New Cambria, Kan.—The New Cambria Commercial Association has plans for the establishment of a $50,000 flour mill.

Dallas, Tex.—The Egan Mill Co. has purchased a site at Dallas for the construction of a mill. Besides the mill an elevator of 75,000-bu. capacity and a large warehouse will be constructed. The initial cost of the buildings and machinery will be more than $50,000.

+Galveston, Tex.—Wily, Nichols & Co., have awarded a contract to J. W. ZEMPTER, for a four-story reinforced-concrete storage warehouse, at $25,000.

San Antonio, Tex.—The Texas Refining Co. of Greenville has purchased a site at San Antonio for a proposed cotton-seed oil mill that it will construct at a cost of $125,000. The building will be two stories and of brick and reinforced concrete construction. In connection with this mill the company will erect a plant for the manufacture of cotton-seed oil compounds. Frank J. Philips is Pres.

Tulsa, Okla.—The city administration will build a $10,000 soap factory, to utilize its garbage. A fertilizer plant will be included.

Calexico, Calif.—The Pacific Cotton Co. will build five cotton gnis in the Imperial Valley. The Calexico plant will include a 4000-ton, 60x200-ft. seed house, an eight-stand, 27x90-ft. gir, an oil mill, five 10,000-gal. oil tanks and a power house.

Oakdale, Calif.—J. P. Olsen contemplates the construction of a sash and door factory at Oakdale. Estimated cost, $10,000.

Montreal, Que.—W. W. Burland, Pine Ave., will construct a garage on Cedar Ave. to cost $35,000.

Brantford, Ont.—The Brantford Industrial Realty Co., Brantford, will erect a $30,000 factory at Park Ave. and Rawdon St. Barber & Tilley are the Archs.

Hamilton, Ont.—F. J. Rastrick, 30 King St. East, Hamilton, is preparing plans for a new $35,000 factory for the McGregor Shirt Co.

Toronto, Ont.—M. E. and M. McCarthy will build a six-story warehouse, at Youge and Albert Sts. The cost will be $100,000.

Toronto, Ont.—The F. S. Thomas Co. will build a five-story, 80x110-ft. warehouse, at John and Queen Sts. The cost will be $70,000. S. L. Zolles is the Arch.

+Calgary, Alta.—JANS BROS. & CO. has been awarded a contract for a 2,500,000-bu.grain elevator, at $788,000.

+Medicine Hat, Alta.—The Maple Leaf Milling Co. has awarded a contract to ARCHIBALD & CO., for a $1,000,000 flour mill. Noted June 4.

Medicine Hat, Alta—The Alberta Clay Products Co. is preparing plans for doubling its plant at a cost of $60,000.

+New Westminster, B. C.—The St. Mungo Cold Storage Plant has awarded a contract to W. HAYMAN for a new building, at $165,000.

FEDERAL GOVERNMENT WORK

Oil Engine—Boston, Mass.—Bids were received June 23, by the Lighthouse Inspector, Boston, Mass., for furnishing one oil engine for propelling purposes in light vessel No. 54, as follows: Corliss Gas Engine Co., $5978; A. P. Homer, $7550; Standard Motor Construction Co., $8550; August Mietz, $8800; the New London Ship & Engine Co., $10,500. Noted June 18.

Repairing Vessel—Boston, Mass.—Bids were received June 20, by the Lighthouse Inspector, for repairing light vessel No. 42, as follows: New London Marine Iron Works Co., New London, Conn., $6533 (recommended for award); Richard T. Green Co., $6921; Walter F. Chace, $7133; Bertelsen & Petersen Engineering Co., $7408; U. S. Navy Yard, $8757; Lockwood Mfg. Co., $8828. Noted June 11.

Wire and Tubes—Springfield, Mass.—Bids will be received until July 21, by the Commanding Officer, Springfield Armory, for furnishing about 26,000 lb. of medium soft and hard brass wire and 38,000 brass tubes.

+Roads and Walks—Newport, R. I.—The contract for constructing roads and walks at the Naval Station, Newport, R. I., has been awarded to PETER BOMPIANNA & CO., Boston, Mass., at $6388. Noted June 18.

Moorings—Tompkinsville, N. Y.—Bids will be received until 2 p.m., July 15, by the Lighthouse Inspector, Third District, Tompkinsville, N. Y., for furnishing moorings for vessels and buoys, during the next fiscal year, as follows: Chain for buoys, chain for light vessels, mushroom anchors of cast steel and cast iron, light-vessel shackles, buoy shackles, swivels, etc.

Cow Sheds—Anacostia, D. C.—Bids were received, June 18, by the Interior Dept., for the erection of the cow barns at the Government Hospital for the Insane, Anacostia, as follows: McCay & Morris, Washington, D. C., $30,887; W. E. Mooney, $27,571; Arthur Cowsill, $32,199; Melton Construction Co., $26,000; Burgess & Parsons, $30,300; J. L. Marshall, $28,327; W. H. McCray, $32,000; Skinker & Garrett, $26,717; Andrew Murray, $29,000; R. L. Jennings, $28,490; all bidders of Washington, D. C.

Promenade Roof Covering—Washington, D. C.—Bids were received June 22, for the construction of promenade, roof covering for the Bureau of Engraving and Printing, Washington, D. C., as follows: J. L. Marshall, Washington, D. C., $6806; Skinner & Garrett, Washington, D. C., $6162; W. E. Mooney, Washington, D. C., $6093; Chesapeake Iron Co., Baltimore, Md., $7900. Noted June 18.

+Post Office—Moundsville, W. Va.—The contract for the construction of the post office at Moundsville, W. Va., has been awarded to W. H. BATSON, Moundsville, W. Va., at $59,850. Noted May 14.

+Power House and Machinery—Wheeling, W. Va.—Contracts for building a fireproof powerhouse and furnishing and installing machinery at Dams Nos. 15 and 20, Ohio River, have been awarded as follows: (a) Dam No. 15 (b) Dam No. 20, H. L. KREUSLER, 3301 Penn Ave., Pittsburgh, Penn., for power house and boiler chimneys, complete, (a) $26,694, (b) $26,300; one main boiler, one auxiliary boiler, and accessories for both, The BABCOCK & WILCOX CO., Farmers Bank Bldg., Pittsburgh, Penn., (a) $2811, (b) $2961; boiler feed pump, delivered complete, The INTERNATIONAL STEAM PUMP CO., Pittsburgh, Penn., (a) $48, (b) $48; feed water heater, oil separator, and grease trap, (a) WARREN WEBSTER CO., Camden, N. J., $200, (b) The DRAVO DOYLE CO., Diamond Bank Bldg., Pittsburgh, Penn., $193; service pump, The INTERNATIONAL STEAM PUMP CO., Pittsburgh, Penn., (a) and (b) $610 each; air compressors and accessories, BURY COMPRESSOR CO., Erie, Penn., (a) and (b) $2300 each; two air receivers and accessories, (a) BURY COMPRESSOR CO., Erie, Penn., $790, (b) INGERSOLL RAND CO., Farmers Bank Bldg., Pittsburgh, Penn., $785. Noted June 18.

+Post Office—Tarboro, N. C.—The contract for constructing the U. S. post office at Tarboro, has been awarded to R. P. FARNSWORTH & CO., Owensburg, Ky., at $55,268. Noted Apr. 23.

+Post Office—Bennettsville, S. C.—The contract for constructing the post office at Bennettsville, S. C., has been awarded to DIETRICK RICHARDSON, Richmond, Va., at $37,837. Noted May 7.

+Steel Towers—New Orleans, La.—The contract for the foundations for two 300-ft. steel towers, to be erected at the naval station, New Orleans, has been awarded to HENRY MONK, Pensacola, Fla., at $2450., and the steel towers to the PITTSBURGH-DES MOINES STEEL CO., Pittsburgh, Penn., at 4.88c. per lb. for steel work. Noted June 18.

Post Office—Covington, Tenn.—All bids received bty the Superv. Arch., Treasury Dept., for the construction of the post office at Covington, have been rejected. Noted June 18.

+Steel Barges—Cincinnati, Ohio—The contract for constructing three steel deck barges has been awarded to CHAS. HEGEWALD CO., New Albany, Ind., as follows: Two steel barges delivered at Marietta, Ohio, $3699 each, one delivered at Cattlettsburg, Ky., at $3699. Noted June 25.

+Breakwater—Cleveland, Ohio—The contract for completing east breakwater extension, Cleveland Harbor, has been awarded to the EDWARD GILLEN DOCK, DREDGE & CONSTRUCTION CO., Racine, Wis., at $148,441. Noted June 25.

+Erecting Storehouse—Cleveland, Ohio—The contract for erecting storehouse at foot of East Ninth St., Cleveland, Ohio, has been awarded to ANDREWS BROS., 130 B. of L. E. Bldg., Cleveland, Ohio, at $10,877. Noted June 25.

Motor Boats—Detroit, Mich.—Bids will be received until 2 p.m., July 6, by the Lighthouse Inspector, Detroit, Mich., for furnishing and delivering two 21-ft. motorboats for light vessels Nos. 96 and 98.

Building—Mackinac Island, Mich.—Bids will be received until 2 p.m., July 6, by S. I. Kimball, Gen. Supt., 11th Life Saving District, Harbor Beach, Mich., for constructing a life-saving station house, launchway and accessories at Mackinac Island, Mich.

Building—Port Austin, Mich.—Bids will be received until 2 p.m., July 13, by the Treasury Dept., U. S. Life Saving Service, for constructing a boathouse and accessories for the Port Austin Life Saving Station, Port Austin, Mich.

+Steel Towers—Great Lakes, Ill.—The contract for the construction of two 500-ft. steel towers at the naval station, has been awarded to the PITTSBURGH DES MOINES STEEL CO., Pittsburgh, Penn., at 4.78c. per lb. Noted June 18.

+Post Office—Macomb, Ill.—The contract for the construction of the post office at Macomb, Ill., has been awarded to R. S. MOORE, Lafayete, Ind., at $60,941. Noted June 25.

+Post Office—Lake City, Minn.—The contract for constructing the U. S. post office at Lake City, Minn., has been awarded to the NORTHERN CONSTRUCTION CO., Milwaukee, Wis., at $44,454.

+Post Office—McPherson, Kan.—The contract for constructing the U. S. post office at McPherson, Kan., has been awarded to the HIRAM LLOYD BUILDING & CONSTRUCTION CO., St. Louis, Mo., at $43,366. Noted June 25.

★+Earthwork and Structures—Vandalia, Mont.—The contract for constructing earthwork and structures at Vandalia Point, Vandalia South Canal, has been awarded to W. J. HOEY & CO., St. Paul, Minn. at $42,640. Noted June 11.

Gasoline Motor Launch—Galveston, Tex.—Bids were received June 16, by the Lighthouse Inspector, Eighth District, New Orleans, La., for a gasoline motor launch for Galveston Harbor, as follows: Z. W. Carter, Biloxi, Miss., $3400, alternate $3985; R. J. Terrebonna, Morgan City, La., $4975, $5000; Thomas M. Favre, Gulfport, Miss., $3100, $3684; Wailn Marine Equipment Co., 305 Vernon Ave., Long Island City, N. Y., $5160; Smith & Williams Co., Salisbury, Md., $6250; Sidione Krebs, Pascagoula, Miss., $4325; Gas Engine & Power Co., and Charles L. Seabury & Co., Consolidated, Morris Heights, New York, $6125 and $6450; Astoria Boat Works & Marine Equipment Co., Inc., 561 Boulevard, Long Island City, N. Y., $4100 and $4660; Greenport Basin & Construction Co., Greenport, N. Y., $4070. $4560, and Racine Truscott Shell Lake Boat Co., Muskegon, Mich., $3350, $3950.

Earthwork—Grand Junction, Colo.—The lowest bid received by the U. S. Reclamation Service for earthwork on 30 miles of main canal, Grand Valley project, Colo., was submitted by Winston Bros. Co., Minneapolis, Minn., as follows: Excavation, Schedules 1, 2 and 3, 19.75c. per cu.yd.; overhaul, 2c. per cu.yd., and clearing and grubbing, $40 per acre, total $387,483. Other bidders were Wood, Bancroft & Doty, Omaha, Neb., $417,466; Reynolds Ely Construction Co., Springville, Utah, $419,977; Utah Construction Co., Springville, $436,869. Noted May 7.

Head Gates—Okanogan, Wash.—Bids will be received until July 6, by O. H. Ennsign, Electrical Engr., U. S. Reclamation Service, Los Angeles, Calif., for head gates for Okanogan project, Wash.

✚**Hydraulic Apparatus**—Okanogan, Wash.—The contract for hydraulic apparatus for the Okonogan project has been awarded to the PELTON WATER WHEEL CO., San Francisco, Calif., at $6241. Noted June 4.

Turbine Exciter—Puget Sound, Wash.—Bids will be received until 11 a.m., July 25, by H. R. Stanford, Chief, Bureau of Yard and Docks, Navy Dept., Washington, D. C., for furnishing and installing one 40-kw. turbine-driven exciter in the central power plant, at the Navy Yard, Puget Sound.

★**Machinery and Valves**—Seattle, Wash.—The lowest bid submitted for valves and operating machinery for Lake Washington Canal locks has been submitted by Meecham & Babcock, Central Bldg., Seattle, Wash., at $110,652. Noted June 11.

✚**Reinforcing Dike**—Mare Island, Calif.—The contract for reinforcing Dike No. 12, at the Mare Island navy yard, has been awarded to the THOMPSON BRIDGE CO., San Francisco, Calif., at $29,837. Noted May 7.

Hopper Dredge—San Francisco, Calif.—Bids for constructing the hopper dredge "San Pablo" have been received as follows: Moran Co., Seattle, Wash., $295,000, Mare Island Navy Yard, $293,000, New York Shipbuilding Co., $240,000, Union Iron Works, San Francisco, Calif., $247,000, Skinner Dry Dock & Construction Co., Baltimore, Md. Noted Apr. 23.

Cable Tank, Cars, Mine Storehouse Cars, Air Compressor Plant, Etc.—Panama—Bids will be received until 10:30 a.m., July 13, by Maj. F. C. Boggs, Gen. Pur. Officer, Isthmian Canal Comn., Washington, D. C., for furnishing cable tank cars bolts, nuts, etc., at Panama.

MISCELLANEOUS

Fire Station—Portland, Maine—The city plans to construct a fire station for its automobile fire apparatus. F. F. Flaherty is Fire Chief.

Riprap, Dredging—Boston, Mass.—Bids will be received by the State Harbor and Land Commissioners, Boston, for placing 1600 tons of rip rap in the bank of the Connecticut River at Agawam, and for dredging at Rockport Harbor. William Y. Williams is Ch. Engr. Comrs.

Elimination of Grade Crossings—Boston, Mass.—The Directors of the Port of Boston, acting jointly with the Public Service Commission, plan to eliminate two grade crossings on the Boston & Maine R.R. at Charlestown's Neck. This will leave in Boston only the grade crossings on the Shawmut Branch of the New York, New Haven & Hartford R.R. yet to be eliminated. Plans for this work have been made. Frank A. Hodgdon, 40 Central St., Boston, is Ch. Engr. of the Directors of the Port.

★**Grading and Riprap**—Boston, Mass.—(Official)—Bids were opened June 23 by the State Board of Harbor and Land Commissioners, Boston, for placing 1300 ft. of grading and 4500 tons of riprap in the northerly bank of Annisquam River, Gloucester. The contract has been awarded to JOHN CASHMAN & SONS CO., Boston, at $9465.

River Work—Boston, Mass.—The Governor has signed the bill, providing for the widening and deepening of the Merrimac River for the purpose of navigation. The measure carries a state appropriation of $1,000,000, provisional upon an agreement by Congress to complete the project, which will cost approximately $7,000,000.

Fire Apparatus—Malden, Mass.—The city plans to purchase automobile fire apparatus to cost $40,000. Charles Schumacher is Mayor.

Harbor Development—New Bedford, Mass.—The Governor has signed the New Bedford harbor improvement bill, appropriating $350,000. The bill contains the provision that the city of New Bedford must turn over to the state waterfront property, valued at about $100,000.

Barge Canal Work—Albany, N. Y.—See item under Bridges.

Barge Canal Work—Albany, N. Y.—Bids were opened by Duncan W. Peck, State Supt. Pub. Wks., Albany, June 23, for Contract, 1-A, Champlain Canal, Sect. 2, for completing the construction of the canal from Crockers Reef to Fort Edward. Length 4.45 miles. The only bid submitted was that of Holler & Shepard, E. & B. Bldg., Rochester, N. Y., at $113,105. Engineer's estimate, $90,811.

★**Barge Canal Work**—Albany, N. Y.—(Official)—Bids will be received by Duncan W. Peck, Supt. of Pub. Wks., Albany, until noon, July 28, for improving the New York State canals under Contract Nos. 119 and 120. For details see advertisement under "Contracts To Be Let."

Creek Work—Martinsville, N. Y.—The state has appropriated $10,000 for cleaning Sawyer's Creek in Martinsville.

Fire Alarm System—New York, N. Y.—(Borough of Brooklyn)—(Official)—Bids will be received until 10:30 a.m., July 13, by Robert Adamson, Fire Comr., Municipal Bldg., Borough of Manhattan for establishing and equipping an extension to the fire alarm telegraph system, Borough of Brooklyn.

Floor Work—New York, N. Y.—(Borough of Richmond)—(Official)—Bids will be received until 2:30 p.m., July 7, by John H. Kingsbury, Comr. Pub. Charities, Municipal Bldg., Borough of Manhattan, for removing the present sanitary floors and renewing same in the bath and toilet rooms of three pavilions at the New York City Farm Colony, Borough of Richmond.

Cabinets—New York, N. Y.—(Borough of Manhattan)—(Official)—Bids will be received until 2 p.m., July 9, by F. J. H. Kracke, Comr. of Bridges, Municipal Bldg., Manhattan, for installing security cabinets in the vault in the Municipal Bldg.

Ice Making Tank, Etc.—New York, N. Y.—(Borough of Manhattan)—(Official)—Bids will be received until 2:30 p.m., July 2, by John A. Kingsbury, Comr. Pub. Charities, Municipal Bldg., Borough of Manhattan, for installing an additional ice-making tank, ice-storage box and ice slide, etc., in the kitchen and dining hall, city hospital district, Blackwell's Island.

Pier Work—New York, N. Y.—(Borough of Manhattan)—(Official)—Bids will be received until noon, July 2, by R. A. C. Smith, Comr. of Docks, Dept. of Docks and Ferries, Pier A, foot of Battery Place, North River, Borough of Manhattan, for repairing a portion of the pier and approach at the foot of West 96th St., North River, Manhattan.

✚★**Subway**—New York, N. Y.—(Borough of Brooklyn)—The Public Service Commission has awarded the contract to the CRAWFORD CO., 190 Montague St., Brooklyn, N. Y., for constructing Sect. 1 of Route 12, a part of the Fourth Ave.-Lexington Ave. and Eastern Parkway rapid transit railroad, at $2,195,296. Bids were opened June 16. List of bidders noted June 18.

Comfort Stations—Trenton, N. J.—The Municipal Improvement Committee, of the Chamber of Commerce, is considering the erection of a series of comfort stations in the central section of the city.

Elimination of Grade Crossings—Erie, Penn.—The Lake Shore & Michigan Southern Ry. plans to elevate its tracks in Erie to eliminate grade crossings at Peach, Sassafras and Parade Sts.

✚**Pier**—Philadelphia, Penn.—The GUERNSEY-O'MEARE CO., 1408 North American Bldg., Philadelphia, has been awarded the contract for the construction of warehouse pier No. 47 for the Pennsylvania Sugar Refining Co. It will be 125x228 ft.; and will cost about $200,000.

Oil Tanks—Cumberland, Md.—The Standard Oil Co. plans to construct oil tanks at Cumberland to cost $60,000.

Levee Work—New Orleans, La.—Bids will be received until 3 p.m., July 7, by the Commissioners of Orleans Levee District, New Orleans, for 179,000 cu.yd. of levee work.

★**Dredging**—New Orleans, La.—(Official)—Bids will be received by the Board of Commissioners of the Port of New Orleans, until 8 p.m., July 20 for dredging in the Mississippi River. For details see advertisement under "Contracts To Be Let."

Bank Protection Work—Shreveport, La.—Bids will be received until noon, July 15, by the Commissioners of Caddo Levee District, Shreveport, for bank protection in several reaches in Caddo Parish, aggregating 49,000 ft. W. A. Kerley is Secy.

✚**Ditch**—Lexington, Tenn.—Beech River Drainage District has awarded the contract to the McGINNIS CONSTRUCTION CO., Memphis, Tenn., for the construction of a 10½-mile ditch, at $23,000.

Drainage—Henderson, Ky.—The County Engineer, Henderson, is preparing plans for a drainage system for Pond Creek.

Sheet Steel Piling—Cleveland, Ohio (Official)—Bids will be received until noon, July 9, by the Commissioners of Purchases and Supplies for sheet-steel piling on the site of clear water basin at the filtration plant, Division Ave. pumping station.

Wall—Youngstown, Ohio—The contract has been awarded to WILLIAM McINTYRE & SONS, Youngstown, for constructing a retaining wall along the west side of Shenango River between the State St. Bridge and a point 100 ft. north of the V Bridge, at about $20,000.

✚**Drain**—Indianapolis, Ind.—The Board of Public Works has awarded the contract to DUNN, McCARTHY & CO., Chicago, Ill., for constructing Pogues Run Drain, at $907,067.

Ditch—Rochester, Ind.—Bids will be received until July 7, by H. A. Zellers, Const. Comr., of Fulton County, Rochester, for constructing Clevenger Ditch.

Ditch—Warsaw, Ind.—Bids will be received until 1 p.m., July 7, by S. C. Funk, Const. Comr., Warsaw, for the construction of the Ammon-Bucher Ditch.

Creek Work—Grand Rapids, Mich.—The cost of constructing Plaster Creek at the intersection of Grandville Ave. and the Holland Interurban Electric R.R. has been estimated at $30,000.

Drain Work—Lamotte, Mich.—The townships of Lamotte, Evergreen, Moore, Elmer and Flynn will deepen, widen and straighten Cass River Drain. Estimated cost, $20,000.

Drains—Mason, Mich.—The county plans to ask for bids soon for constructing Green Drain and Krental Drain. Surveys has been completed by A. Carven, Drain Comr., Mason.

Fire Apparatus—Benton, Ill.—The citizens have voted $15,000 in bonds to purchase fire apparatus.

Park, Breakwater—Racine, Wis.—The city plans to construct a park along the lake front. A breakwater will also be built out into the lake. P. H. Connelly is City Engr.

Dam—Cedar Rapids, Iowa—The city plans to award the contract in about one month for the proposed dam across the Cedar River. T. F. Cauley is City Engr.

✚**Drain**—Clarion, Iowa—The County Commissioners have awarded contracts as follows: For constructing Drain 93 to BERKLAND & LITTLE, Eagle Grove, Iowa, at $13,995; for open work on Drains 3 and 5 to F. E. SMITH, Clarion, at 49c. per cu.yd.

Ditch—Perry, Iowa—Bids will be asked about July 7 by the County Clerk, Adel, Iowa, for Ditch No. 30. Estimated cost, $10,000. Charles E. Wilson is Engr.

Ditch—Slayton, Minn.—Bids will be received until 10 a.m., July 7, by W. A. Seeman, County Audr., Slayton, for constructing Ditch No. 29. Estimated cost, $21,670.

Stockyard Pens—Kansas City, Mo.—The Union Pacific R.R. plans to construct pens at the Kansas City stockyards.

Levee—Austin, Tex.—Burleson County Improvement District No. 1 plans to issue $136,000 in bonds for repairing, reconstructing and enlarging levees. J. C. Nagel, Austin, is Dist. Comr.

Drainage—Cuero, Tex.—The taxpayers have voted in favor of issuing $30,000 in bonds for a drainage system.

Shed—Galveston, Tex.—The Harris-Irby Cotton Co., Galveston, plans to construct a cotton shed between 42nd and 43d Sts. on Ave E. Estimated cost, $30,000.

+Dam—Luling, Tex.—The contract for the proposed reinforced concrete dam for H. & C. Zedler in San Marcus River, has been awarded to TADLOCK BROS., Gonzales, Tex.

Wharf Superstructure, Etc.—Seattle, Wash.—Bids for the superstructure of the Hanford St. Wharf, and for the foundations of the 500,000-bu. bulk- and sack-grain elevator, to be erected by the Seattle Port Commission, were opened recently. Fourteen bids were received on each improvemnt. The three lowest bidders follow: For the wharf superstructure: A. S. Peterson, $78,235; Harrington-Peters Co., $87,000; Weymouth Construction Co., $88,731; for grain elevator foundations: W. T. Butler Construction Co., $25,180; Weymouth Construction Co., $26,272; Franklin Engineering Co., $26,696, all of Seattle. Paul P. Whitham is Ch. Engr.

Park Work—Ashland, Ore.—The citizens have voted to improve Cañon Park at a cost of $175,000.

Dock—Brandon, Ore.—The City Recorder will ask for bids soon for the construction of a floating dock at the foot of Chicago Ave.

Fire Apparatus—Fresno, Calif.—Bids will be received by W. H. Ryan, City Clk., until 8 p.m., July 6, for a motor-driven hose-wagon, fully equipped with power to draw a 7500-lb. fire engine; motorization of an 8500-lb. steam engine and motorization of a hose-wagon.

Elimination of Grade Crossings—(Subway)—Fresno, Calif. —The City Engineer has been instructed to prepare plans for a subway under the tracks of the Southern Pacific Co., to eliminate the grade-crossing at Monterey St.

Drainage—Knights Landing, Calif. — The Trustees of Knights Landing Ridge Drainage District plan to improve the district by constructing a canal five miles long. Estimated cost, $800,000. P. A. Haviland, Oakland, Calif., is Engr.

Wharf—Martinez, Calif.—The Shell-Royal Dutch Syndicate have purchased 200 acres of bay shore at Martinez and will construct a wharf. They will also erect a refinery with a capacity of 10,000 bbl. per day.

+Ferry House—San Francisco, Calif.—The Panama-Pacific International Exposition Co. has awarded a contract for the construction of a ferryhouse to STREHLOW, FREESE & PETERSEN, San Francisco, at $42,200.

Fire Apparatus—Santa Maria, Calif.—The city plans to purchase a motor-driven truck, fully equipped, and 1400 ft. of fire hose. Bonds for $12,500 will be issued for this purpose.

Dock—Juneau, Alaska—The Du Pont de Nemours Powder Co., Wilmington, Del., plans to construct a dock and magazine at Smugglers' Cove, about five miles south of Juneau.

+Dredging—Montreal, Que.—The Cedars Rapids Mfg. & Power Co. has awarded a contract to SIMPSON BROS., of Montreal, for dredging work. This work consists of the removal of the barrier at the head of the canal and dredging out the forebay immediately above the intake. There is involved the removal of about 175,000 cu.yd. of material.

Conduits—Montreal, Que.—Bids will be received until July 10, by the Board of Control for the construction of underground conduits in Craig, Notre Dame and St. James Sts., between St. Lawrence and McGill Sts.

Wharf—St. Alphouse, Que.—The Roberval-Seguenay Ry. Co. will ask for bids soon for the construction of a wharf to cost $25,000. Gernon & Lavoit, Chicoutimi, Que., are Engrs.

Dredging—Fort William, Ont.—Bids will be received until July 3 by R. C. Desrochers, Secy. Dept. Pub. Wks., Ottawa, Ont., for dredging required in McKellar River, Fort William.

Docks—Calgary, Alta.—See item under Bridges.

+Wharf—Gleneden, B. C. — The Department of Public Works has awarded the contract to JAMES McDONALD & CO., Victoria, B. C., for constructing a wharf at Glenden.

Elimination of Grade Crossing—(Subway) — Vancouver, B. C.—The city plans to construct a subway under the tracks of the Canadian Pacific Ry. to eliminate the grade crossing at Carroll St.

BUILDINGS

+Portland, Maine—The contract for the erection of the Putnam Exposition building on Bank St., has been awarded to F. W. CUNNINGHAM & SON, 430 Congress St. F. A. Thompson, Y. M. C. A. Bldg., is the Arch. The estimated cost is $75,000.

+Manchester, N. H.—The contract for the erection of a theater for Victor Charas, Beacon Bldg., has been awarded to HARRY MACROPOL, 100 Hanover St. It will be 78x100 ft., of brick, to cost $75,000. Leo Lempert & Son, Rochester, N. Y., are the Archs.

+Worcester, Mass.—The general contract for the erection of the Park Building, at Park and Franklin Sts., has been awarded to GEORGE A. FULLER CO., New York, N. Y., at about $400,000. Cross & Cross are the Archs.

+Providence, R. I.—The contract for the erection of the Courtland St. school has been awarded to WILLIAM WILLIAMS, 86 Weybossett St. Hoppin & Field are the Archs., 32 Westminster St. The estimated cost is $300,000.

Greenwich, Conn.—Plans are being prepared by Carrere & Hastings, Archs., 225 Fifth Ave., New York, for the erection of a general hospital. The estimated cost is $250,000.

South Manchester, Conn.—The Ninth School District is planing the erection of a building for the Westside School. The estimated cost is $64,200. Frank Farley, 15 West 38th St., New York, N. Y., is the Arch.

+Stamford, Conn.—Contracts for the erection of the addition to the high school have been awarded as follows: General contract, HARRIS CONSTRUCTION CO., Bland Bldg., at $93,449, and electrical work, $3477; heating and ventilating, OPPERSAN & HENNESSEY, 73 Pacific St., at $12,236. Other bidders for the general contract were as follows: Carlton Co., New York, $91,188; Oscawanna Building Co., New York, $93,570; A. M. Barrows, $94,235; John Lowry, Jr., $95,500; Casper Ranger Construction Co., Holyoke, Mass., $109,935; A. A. Scofield, Stamford, Conn., $118,517; G. G. Fearon, New York, $119,968. Noted June 18.

Stratford, Conn.—Bids are being received for two schools, one to be erected on Nichols Ave. and the other as an addition to the Washington schol. Frank H. Beckwith, 16 P. O. Arcade, is the Arch., Bridgeport, Conn.

New York, N. Y. (Borough of Bronx)—(Official)—Bids were received June 22, by C. B. J. Snyder, Supt. of School Bldgs., Park Ave. and 59th St., for the general construction of the Evander Childs High School, on East 184th St., as follows: Midtown Contracting Co., $414,141; John T. Brady & Co., $439,510; T. A. Clarke Co., $418,600; Conners Bros. Co., Inc., $421,590; Libman Contracting Co., $453,680; H. C. Stowe Contracting Co., $427,270; all of New York. Noted June 11.

New York, N. Y. (Borough of Bronx)—Bids will be received until 3 p.m., July 13, by C. B. J. Snyder, Supt. of School Buildings, 59th St. and Park Ave., for general construction of additions to and alterations in school 12, Benson Ave. and Overing St.

+New York, N. Y. (Borough of Manhattan)—The contract for the erection of the store and office building at Columbus Circle, Eighth Ave. and 61st St, has been awarded to the COLUMBUS CIRCLE CONSTRUCTION CO., American Bldg., 58th St. and Broadway. The height has not been decided. Noted June 25.

Jackson, Rosecrans & Waterbury, Archs., 1328 Broadway, are preparing plans for the erection of the Irvin Hotel for Women ,to be erected at 308 West 30th St. It will be 12 stories, 66x100 ft. The estimated cost is $250,000.

(Borough of Manhattan)—Donn Barber, Arch., 101 Park Ave., has been commissioned to prepare plans for the erection of a building at Lexington Ave. and 53d St. for the Y. W. C. A. The estimated cost is $600,000.

Newark, N. J.—The Board of Education will erect a seven-story, 150x121 ft. administration building at Washington and Academy Sts. The estimated cost is $500,000.

Trenton, N. J.—Bids were received for constructing the municipal hospital addition as follows: Charles R. Randall, $37,293; Louis Levy, $38,167; David Dietz, $38,500; Elmer H. Stout, $42,918; Samuel Hilton, $39,800; S. W. Van Loon, $46,171; S. W. Mather & Son, $88,533; Winfield S. Hill, $42,000; Samuel Wiley, $39,643. Noted June 4.

+Philadelphia, Penn.—The contract for the erection of a seven-story 72x75 ft., office building for Powers, Weightman & Rosengarten, has been awarded to WILLIAM SEELE & SONS CO., Philadelphia, Penn. The estimated cost is $100,000.

+Philadelphia, Penn.—The contract has been awarded to WILSON MINOR, 4636 Penn St., for the erection of the two-story stone and brick office building at Frankford and Overington Sts.

Arlington, Md.—Plans have been completed by Owens & Sisco, Archs., Continental Bldg., Baltimore, for the erection of a two-story, 50x60 ft. bank building for the Commercial Bank of Maryland. The contract will be awarded July 7.

+Charleston, W. Va.—The United Fuel Gas Co. has awarded contract for a four-story 40x90 ft., office building to the RAGLAND BAXTER MORFORD CO., Nashville, Tenn., at $50,000.

+Hazard, Ky.—The contract for the jail to be erected at Hazard, has been awarded to J. C. & C. S. TODD, Richmond, Ky. Weber, Werner & Adkins, are the Archs., Mercantile Library Bldg., Cincinnati, Ohio.

+Cincinnati, Ohio—The contract for the brick work on the Good Samaritan Hospital, has been awarded to the SCULLY CONSTRUCTION CO., G. W. Drach, is the Arch., Union Trust Bldg., Cincinnati, Ohio.

Lancaster, Ohio—Bids will be received until July 18, for the erection of a State Armory. The estimated cost is $43,000.

Bessemer, Mich.—Charlton & Kuenzil, Archs., Camp Bldg., Milwaukee, Wis., are preparing plans for the erection of a three-story and basement, 80x60 ft. court house. The estimated cost is $75,000.

Detroit, Mich.—Plans are being prepared by Malcomson & Higginbotham, Archs., 405 Moffat Bldg., for the erection of a three-story, 203x256 ft., high school on Woodward Ave. The estimated cost is $440,000.

+Chippewa Falls, Wis.—The general contract for building the State School for Feebleminded has been awarded to the WISCONSIN CONSTRUCTION CO., Chippewa Falls. Noted June 11.

+Milwaukee, Wis.—The following contracts have been awarded for the superstructure of the Washington High School at Sherman Blvd. and Wright St., as follows: Carpentry, HENRY JAHNS, $29,563, plastering, A. H. BUEL & CO., $18,000, painting, F. SPETZ, JR., $7689, tile and marble, BREIDSTER MARBLE CO., $33,936, heating, DOWNEY HEATING & SUPPLY CO., $29,461, heat regulation, NATIONAL REGULATING CO., $3333. Noted June 25.

Waterford, Wis.—Bids will be received until July 6, by H. W. Halbach, for constructing the Waterford Joint High School. Guilbert & Funston, are the Archs., Racine, Wis.

+Council Bluffs, Iowa—The contract for the erection of the addition to the hospital, for the Sisters of Mercy, has been awarded to WICKMAN BROS., 19 Scott St.

Minneapolis, Minn.—Bids will be received until 2 p.m., July 6, by G. H. Hayes, Comptroller, University of Minnesota, for remodeling the chemistry building.

+New Ulm, Minn.—The general contract for the erection of the armory at New Ulm, has been awarded to WELLANDT & STEGEMANN, New Ulm.

+St. Paul, Minn.—The excavation contract for the 10-story building to be erected at Sixth and St. Peter Sts., for Manheimer Bros., has been awarded to FRED C. NORLANDER, 410 American Bank Bldg., St. Paul, Minn. The estimated cost is $1,000,000.

San Francisco, Calif.—Bids were received by the Board of Public Works, for the general construction of the jail and portions of the City and County jail buildings, as follows: W. A. Newsom, $41,388, T. W. Clenaham & Co., $39,300, Monson Bros., $47,882, Alfred Kohn, $44,922, Larson, Sampson Co., $47,500, William Bateman, $46,000.

Kansas City, Kan.—Bids will be received by the Board of Education, until 8 p.m., July 6, for the construction of the Bryan Primary School, the Chelsea Primary School, the Parker School, and the Frances Willard School. James A. Fulton is Pres.

CONTRACT PRICE

Dry Dock—Boston, Mass.—Bids were received June 15 by the Directors of the Port of Boston for Contract 25—Constructing a dry dock at South Boston. The bidders were: (A) Coleman Bros., Chelsea, Mass.; (B) Winston & Co., Brount Station, N. Y.; (C) T. Stuart & Sons Co., 222 Pearl St., Newton, Mass.; (D) Hugh Nawn Contracting Co., Boston; (E) H. P. Converse & Co., 88 Broad St., Boston; (F) Maryland Dredging & Contracting Co., Baltimore, Md.; (G) H. S. Realty & Improvement Co., 111 Broadway; (H) S. Pierson & Son, Inc., New York; (I) Holbrook, Cabot & Rollins Corporation, 6 Beacon St. Boston, Mass.; (J) Larken & Sangster, Seneca Falls, N. Y.; (K) W. P. Seaver, 322 Fifth Ave., New York; (L) Norcross Bros., Worcester, Mass. The item bids were as follows:

Lawrence, Kan.—W. F. Gernandt, Omaha, Neb., is preparing plans for the erection of three schools to be erected by the Board of Education, at Lawrence, Kan. The estimated cost is $75,000.

Kansas City, Mo.—Bids will be received until July 10, by the Board of Public Works, for the construction of the tuberculosis hospital, near Leeds, Mo. Edgar P. Madorie, Reserve Bank Bldg., is the Arch.

Salt Lake City, Utah—The Salt Lake County Club will erect a clubhouse at 23rd East and South 10th Sts. The estimated cost is $125,000. D. C. Jackling is Pres.

Kingman, Ariz.—The lowest bid submitted for the construction of the Mohave County Courthouse, at Kingman, Ariz., was that of T. J. Mahoney, Phœnix, Ariz., at $57,200. Noted May 25.

+Pocatello, Idaho—The contract for the erection of the building for the Mountain States Telephone & Telegraph Co., Pocatello, has been awarded to C. F. WALKER CONTRACTING CO., Denver, at $85,000.

Olympia, Wash.—The State Capitol Commission has decided to issue bonds to cover the completion of the unfinished temple of justice, and for the erection of the main building of the new capitol group. The estimated cost is $1,500,000.

Seattle, Wash.—The Board of Regents of the University of Washington, have approved plans for the erection of a 10-story building on the University tract, estimated to cost $450,000.

La Grande, Ore.—The B. P. O. E. will erect a lodge building at La Grande. Estimated cost, $50,000.

+Portland, Ore.—The Dinwiddie Construction Co., general contractors for the 14-story Meier & Frank building, have awarded to the NORTHWEST STEEL CO. the contract for furnishing all the structural steel.

Fresno, Calif.—W. D. Coates, Jr., Arch., has been commissioned by the Board of Education, to prepare plans for the erection of a group of schools, estimated to cost $350,000.

Pasadena, Calif.—The Pasadena Theater Co., will erect a theater to cost $80,000. Louis Du P. Millar, 310 St. Louis Bldg., is the Arch.

+San Francisco, Calif.—The Washington State Exposition Commission has awarded the contract for the construction of the Washington Building at the San Francisco Fair Grounds to the DUNNAVANT-HOUGHTON CO., San Francisco at $44,964. Noted June 4.

CONTRACT 25, SOUTH BOSTON DRY DOCK, BOSTON, MASS.

	A	B	C	D	E	F	G	H	I	J	K	L
	$	$	$	$	$	$	$	$	$	$	$	$
Cofferdam and pumping (lump sum)	70,000.00	100,000.00	40,000.00	126,000.00	255,738.00	50,000.00	180,000.00	280,000.00	40,000.00	97,000.00	78,217.00	82,000.00
700,000 cu.yd. excavation and filling	0.29	0.31	0.45	0.33	0.20	0.27	0.25	0.59	0.30	0.25	0.32	0.40
700,000 cu.yd. earth excavation for concrete, taken to sea	0.25	0.20	0.23	0.297	0.16	0.20	0.25	0.27	0.16	0.22	0.21	0.30
200 cu.yd. misc. excavation	1.00	1.50	1.00	1.00	1.37	1.25	3.00	1.44	1.00	0.50	1.00	2.00
10,000 cu.yd. rock excavation	2.50	2.25	2.15	2.00	1.74	1.50	2.90	4.45	2.35	1.85	2.45	2.80
74,000 yd. rock excavation	1.50	2.25	1.75	3.00	1.74	1.50	2.90	2.10	2.35	1.85	2.45	2.50
800 cu.yd. class B concrete	8.00	12.00	13.50	12.00	14.00	10.00	9.00	16.95	8.00	15.00	5.00	9.60
17,000 sq.yd. granolithic finish	0.50	0.75	0.75	0.75	0.82	0.06	0.35	0.48	0.75	0.72	00 0.45	1.00
17,000 yd. plastering walls	0.35	0.50	0.50	0.70	0.82	0.10	0.35	0.63	0.60	0.54	0.40	0.55
Granite, lump sum	102,713	148,000	119,000	120,000	125,004	120,000	150,000	170,750	126,500	117,859	120,520	144,000
Granite alternate, lump sum (a)	180,000	250,000	189,000	200,000	193,000	193,500	245,200	285,500	216,800	190,000	202,755	231,400
(b)	330,000	450,000	337,150	365,000	354,332	353,600	448,400	517,000	394,600	345,000	373,351	412,850
10,000 cu.yd. (c)	7.50	9.00	8.50	9.50	12.00	9.00	15.30	17.00	8.50	7.00	8.75	11.40
2000 lin.ft. drilling holes in granite	0.20	0.50	0.50	1.00	0.86	0.50	0.20	1.50	0.40	0.60	1.00	0.60
50 cu.yd. brick masonry	17.00	18.00	18.00	15.00	15.40	20.00	15.00	15.00	12.00	18.00	12.00	15.00
25 yd. vitrified brick masonry	30.00	22.00	25.00	25.00	21.50	25.00	16.00	25.00	15.00	30.00	18.00	20.00
35,000 lin.ft. electrical conduits	0.10	0.08	0.06	0.10	0.11	0.09	0.12	0.15	0.12	0.12	0.10	0.18
75,000 lb. steel for reinforcing	0.025	0.035	0.03	0.02½	0.03	0.03	0.04	0.04	0.025	0.03	0.02	0.03
175,000 lb. structural steel	0.03	0.05	0.04	0.03	0.05	0.06	0.04	0.07	0.04	0.05	0.03	0.035
90,000 lb. misc. steel	0.05	0.07	0.05	0.03	0.05	0.07	0.04	0.12	0.05	0.045	0.05	0.07
60,000 lb. c.i. pipe	0.025	0.025	0.04	0.01¼	0.029	0.02	0.03	0.025	0.025	0.025	0.02	0.04
80,000 lb. special casting	0.04	0.05	0.05	0.04	0.068	0.04	0.05	0.07	0.05	0.03	0.035	0.05
65,000 lb. miscellaneous c.i.	0.04	0.04	0.04	0.03	0.05	0.045	0.04	0.055	0.03	0.045	0.30	0.07
20,000 lb. w.i.	0.04	0.03	0.05	0.03	0.06	0.07	0.05	0.12	0.05	0.03	0.05	0.10
15,000 lb. galvanizing	0.02	0.02	0.03	0.02	0.03	0.05	0.10	0.02½	0.03	0.03	0.05	0.05
8000 lb. brass, copper and composition	0.30	0.45	0.45	0.40	0.45	0.60	0.50	0.60	0.30	0.50	0.25	0.60
50,000 lb. receiving and selling metal furnishes	0.01	0.015	0.02	0.01	0.034	0.02	0.02	0.02	0.04	0.02	0.03	0.03
7000 lin.ft. 4-in. w.i. or steel pipe	0.50	0.60	0.45	0.50	0.62	0.50	0.90	0.75	0.50	0.40	0.40	0.80
1200 lin.ft. 6-in. steel pipe	0.80	1.00	0.70	0.80	1.58	0.75	1.25	1.25	0.75	0.65	0.60	1.15
400 lin.ft. hand rail	1.00	1.50	1.25	1.80	1.38	1.00	0.75	2.50	1.50	2.50	1.00	1.50
2500 lin.ft. guard rail on dry dock coping	0.50	1.60	1.50	1.20	1.04	1.50	1.25	1.00	1.50	0.20	0.50	2.50
2625 lin.ft. crane rail around dry dock	1.25	1.50	2.00	3.33	2.07	1.40	1.50	2.00	2.50	0.87	2.00	2.80
500 lin.ft. standard gage railroad track	2.00	3.00	3.00	5.20	4.14	4.00	3.00	3.00	3.00	2.50	6.00	5.00
2200 lin.ft. single rail track fittings	1.50	1.75	1.75	2.50	2.33	1.50	1.50	1.65	2.00	1.25	3.00	3.00
24,000 lin.ft. chains for sliding bilge block	65.00	75.00	140.00	90.00	124.00	100.00	150.00	107.00	80.00	75.00	100.00	130.00
400 ft. oak lumber	0.11	0.15	0.25	0.25	0.17	0.25	0.15	0.21	0.15	0.125	0.25	0.25
5 M. ft. yellow pipe piling	65.00	75.00	65.00	60.00	102.00	90.00	100.00	125.00	115.00	75.00	63.00	80.00
20 M. ft. yellow pine lumber	0.25	0.50	0.75	0.30	0.42	0.50	0.35	0.80	0.30	0.60	0.50	0.60
South approach pier and bulkhead (lump sum)	50.00	60.00	50.00	40.00	73.00	70.00	65.00	125.00	50.00	50.00	40.00	50.00
North approach pier and bulkhead (lump sum)	30,000	40,000	34,750	27,000	57,104	45,000	35,000	48,000	30,400	33,000	27,000	39,800
7000 tons rip rap	175,000	175,000	158,600	170,000	202,870	210,000	190,000	298,000	153,650	200,000	173,000	202,000
	1.30	1.00	1.50	1.00	0.69	1.50	2.00	2.56	1.00	1.50	1.90	2.00
Totals	$1,764,404	$1,895,937	$1,898,937	$1,784,950	$1,889,667	$1,804,745	$2,105,912	$3,066,015	$1,616,307	$1,881,717	$1,632,957	$2,195,925

(a), (b), (c) not included in totals.

+San Francisco, Calif.—The Turkish Government has awarded a contract for the construction of a pavilion on the Exposition grounds to the NORTHWEST CONSTRUCTION CO., Merchants Exchange Bldg., at $40,000.

Edward T. Foulkes, Arch., Crocker Bldg., is preparing plans for the erection of a three-story hotel to be erected at Baker and Lombard Sts., at an estimated cost of $350,000.

+The Ohio State Commission to the Panama-Pacific International Exposition has awarded a contract to LANGE & BERGSTROM, of San Francisco, at $43,980 for the construction of the Ohio State pavilion on the Exposition grounds.

+The Board of Panama-Pacific Managers for Massachusetts has awarded a contract for the erection of a pavilion on the exposition grounds to W. D. HENDERSON at $52,978.

+Fort William, Ont.—The contract for the erection of the Drew school building, has been awarded to SEAMAN & PENNIMAN, at $76,684.

Winnipeg, Man.—The Ancient Order of Foresters will erect a lodge building at Winnipeg. The estimated cost is $100,000.

Edmonton, Alta.—Bids are being received by Magoon & McDonald, Archs., Tegler Block, for the erection of a club and apartment block on Second and Victoria Ave. The estimated cost is $250,000.

Medicine Hat, Alta.—Bids will be received until 4 p.m., July 6, by R. C. Desrochers, Secy., Dept. of Public Works, Ottawa, Ont., for the erection of additions and alterations to public building.

Prince Rupert, B. C.—Bids will be received until 4 p.m., July 6, by R. C. Desrochers, Secy., Dept. of Public Works, Ottawa, Ont., for the erection of a public building.

The Sullivan Machinery Co., of Chicago, announces that J. C. West has been transferred from the San Francisco office to the general office at Chicago, and that R. P. McGrath, of the Boston office, has been appointed district manager at San Francisco.

The Chicago Steel Tape Co., 6229 College Ave., Chicago, announces that it has opened a downtown office at 900 Lytton Bldg., Jackson Road and State Sts., which is in charge of H. D. Nelson.

Mr. George C. Isbester, for the past three years attached to the New York office of the Rail Joint Co., has been placed in charge of the Chicago office, 215 Railway Exchange.

CONTRACT PRICE

Intercepting Sewer—Newark, N. J.—Bids were received June 16, by the Passaic Valley Sewerage Commissioners for constructing Section No. 17, southerly portion, from (A) The Whiting-Turner Construction Co., Baltimore, Md.; (B) Beaver Engineering & Contracting Co., New York, N. Y.; (C) Merrill-Ruckgaber Co., New York, N. Y.; (D) Bruno & Petitti, Belleville, N. J.; (E) New York & New Jersey Construction Co., New York, N. Y.; (F) Harrison & Craig Co., Newark. The item bids were as follows:

Jos. H. Wallace & Co., Industrial Engineers, Temple Court Bldg., New York, announce that they have found it necessary to open an office at Montreal, Que., to take care of Canadian business. This office will be in charge of two members of the firm, Jos. Perry and P. R. H. Murphy.

The Industrial Works, Bay City, Mich., will handle business of the Chicago territory from the main office in Bay City. In the near future a sales office will be opened in Chicago under the name of the Industrial Works.

The Terry Steam Turbine Co., Hartford, Conn., informs us that business has been more satisfactory than in several months, and in order to take care of the increase, additional tools have been installed increasing the capacity of the shop approximately 25%.

The Trussed Concrete Steel Co. has moved its general offices to Youngstown, Ohio. This step was taken to bring the selling and manufacturing organizations in closer communication. At the same time, an office will be maintained in Detroit to take care of the sales inquiries originating in that territory. The Publicity Department of the company will remain in Detroit.

CATALOG NOTICES

The Pelton Water Wheel Co., San Francisco, Calif. Catalog. Waterwheels. Illustrated, 102 pp., 6x9 in.

The Baldwin Locomotive Works, Philadelphia, Penn. Record No. 78. Locomotives for industrial and contractors' service. Illustrated, 32 pp., 6x9 in.

The Kindling Machinery Co., Milwaukee, Wis. Catalog. Squeegee and sand spreader. Illustrated, 40 pp., 6x9 in.

The Yuba Construction Co., San Francisco, Calif. Catalog. Yuba ball tread tractor. Illustrated, 24 pp., 7x10 in.

Buckeye Engine Co., Salem, Ohio. Bulletin No. 111-B. Buckeye-mobile. Illustrated, 16 pp., 8x10 in.

National Transit Ct., Oil City, Penn. Catalog. Gas engines. Illustrated, 16 pp., 9x12 in.

The Brown Hoisting Machinery Co., Cleveland, Ohio. Catalog P. Brownhoist overhead hand traveling cranes. Illustrated, 36 pp., 6x9 in.

Ingersoll-Rand Co., 11 Broadway, New York. (Form No. 4020. Leyner-Ingersoll water drills. Illustrated, 32 pp., 6x9 in. Form No. 8011. "Little David" riveting hammers. Illustrated, 8 pp., 6x9 in. Form No. 8011-1. Rivet set retainer for "Little David" riveters. Illustrated, 4 pp., 6x9 in.

Tropenas Converter Co., 5 Church St., New York. Tropenas converters for the manufacture of steel castings. Illustrated, 48 pp., 6x9 in.

The Lufkin Rule Co., Saginaw, Mich. Catalog No. 9. Measuring tapes and rules. Illustrated, 110 pp., 6x9 in.

Alberger Pump & Condenser Co., 140 Cedar St., New York. Bulletin No. 19. Expansion joints. Illustrated, 16 pp., 6x9 in.

INTERCEPTING SEWER, NEWARK, N. J.
Section No. 17—Southerly Portion

	A	B	C	D	E	F
4800 lin.ft. earth excavation for 65-in. sewer	$26.20	$26.00	$26.00	$16.00	$22.00	$16.00
10,000 cu.yd. rock excavation	1.80	0.01	0.01	4.50	0.01	3.00
3600 cu.yd. concrete masonry	8.14	9.00	9.00	8.50	9.00	8.50
100 cu.yd. brick masonry in manholes	16.00	20.00	15.00	18.00	15.00	18.00
Totals	$174,664	$159,300	$158,800	$154,200	$139,600	$139,200

CONTRACT PRICE

+Sewage Treatment Plant—Canton, Ohio—Bids were received, May 26, by the Board of Public Service for the construction of a sewage treatment plant from (A) J. C. Devine Co., Alliance, Ohio; (B) R. H. EVANS & CO. and E. J. LANDOR, Canton, Ohio (awarded contract); (C) Ule & Loewensohn, Kent, Ohio; (D) Municipal Engineering & Construction Co., Chattanooga, Tenn.; (E) John T. Walbridge Engineering Co., Chicago, Ill. The item bids were as follows:

R. B. Ober, M. Am. Soc. C. E., Consulting Civil Engineer, announces the removal of his offices to 1112 Alaska Building, Sattle, Wash.

The Kauffman Construction Co., Syndicate Bldg., Oakland, Calif., announces that it has bought all the interests of N. M. Price, a member of the Kauffman Price Construction Co., and that the new firm will carry on all business originating in the future, as well as look after old contracts.

SEWAGE TREATMENT PLANT, CANTON, OHIO

	A	B	C	D	E
33,480 cu.yd. earth excavation	$0.70	$0.60	$0.70	$0.53	$0.65
200 cu.yd. rock excavation	1.50	3.00	3.00	2.50	4.00
6235 cu.yd. rolled embankment	0.15	0.10	0.30	0.50	0.20
3950 sq.yd. gravel roadways	1.00	1.10	1.75	1.03	1.50
Parking (lump sum)	2800.00	3000.00	3500.00	4267.00	2000.00
Screen and grit chamber (lump sum)	3000.00	1939.00	2000.00	1895.00	2900.00
Sedimentation tanks (lump sum)	45,000.00	36,015.85	50,302.00	38,842.00	57,000.00
Concrete flumes (lump sum)	1000.00	1407.40	1986.00	1526.00	2100.00
Contact beds (lump sum)	57,000.00	71,482.52	70,312.00	53,900.00	68,500.00
58,000 cu.yd. filtering material (crushed slag)	1.25	1.20	1.18	1.60	1.35
3370 cu.yd. filtering material (gravel)	1.40	1.50	1.75	1.75	1.50
1000 cu.yd. filtering material (sand)	1.25	1.50	1.50	1.50	1.00
Controlling apparatus (lump sum)	8000.00	7000.00	7000.00	7230.00	8000.00
Sludge drying beds (lump sum)	19,000.00	17,500.00	12,802.00	14,946.00	18,000.00
14 tons c.i. piping	85.00	68.00	110.00	90.00	50.00
Concrete outfall pipe and by-pass (lump sum)	1100.00	1730.82	2037.00	1465.00	2500.00
Manholes (lump sum)	500.00	1094.00	1101.00	552.00	300.00
2500 lin.ft. vitrified pipe, 18-in.	0.70	0.65	0.69	0.50	0.65
870 lin.ft. vitrified pipe, 12-in.	0.40	0.33	0.41	0.28	0.35
200 lin.ft. vitrified pipe, 8-in.	0.35	0.20	0.23	0.20	0.30
1000 lin.ft. vitrified pipe, 6-in.	0.25	0.16	.018	0.15	0.20
21,500 lin.ft. vitrified pipe, 6-in.-(channel)	0.12	0.12	0.12	0.10	0.12
220 lin.ft. vitrified pipe, 4-in.	0.15	0.125	0.12	0.10	0.10
1200 lin.ft. farm tile, 6-in.	0.15	0.05x	0.08	0.14	0.10
3510 lin.ft. farm tile, 4-in.	0.08	0.04	0.07	0.10	0.08
50 cu.yd. rip rap	3.00	4.00	4.50	3.00	2.00
Additional concrete for contact beds, per cu.yd.	10.00	12.00	12.50	7.50	15.00
Additional concrete for sedimentation tanks per cu.yd.	12.00	12.00	15.00	8.00	25.00
Additional concrete for all other structures per cu.yd.	10.00	12.00	12.50	7.75	15.00
Additional reinforcing steel, per lb.	0.04	0.0275	0.04	0.035	0.04
Sheeting and shoring, per M. ft. b.m.	40.00	45.00	28.00	50.00	40.00
Totals	$251,721	$249,403	$267,217	$256,795	$281,981

Contracts to Be Let

Bids received until July 8, 1914.

Sewage Screen

WEST 58TH ST. SEWAGE TREATMENT WORKS.
CONTRACT NO. 2

Cleveland, Ohio.

Sealed proposals will be received at the office of the Commissioner of Purchases and Supplies, No. 513 City Hall, until 12 o'clock M., July 8, 1914, for furnishing and installing a mechanical self-cleaning screen.

Copies of plans and specifications and blank proposals can be obtained at the office of the Commissioner of Engineering, Room No. 403 and No. 417 City Hall, after June 27.

The time required to complete the work is an essential part of this contract.

Each proposal must contain the full name of the party or parties making the same and all persons interested therein, and must be accompanied by a certified check for Five Hundred ($500.00) Dollars, payable to the City of Cleveland on a solvent bank, as surety that if the bid be accepted a contract will be entered into and the performance of it properly secured.

No proposal will be entertained unless made on the blanks furnished by the Commissioner of Engineering and delivered at the office of the Commissioner of Purchases and Supplies, No. 513 City Hall, previous to 12 o'clock M. on the day specified.

The City reserves the right to reject any or all bids.

A. R. CALLOW,
Commissioner of Purchases and Supplies.

Bids received until July 22, 1914.

Water Improvements and Repairs

Hudson, N. Y.

Sealed bids will be received until 7:30 P. M., July 22, 1914, by the Secretary of the Commission of Public Works, of the City of Hudson, N. Y., for furnishing material and labor necessary for water proofing the old wall and constructing a six inch reinforced concrete cut-off wall on the upstream face of the storage dam at Churchtown, N. Y., also repairing the outer face as described in the plans and specifications.

Copies of the plans and specifications are on file in the office of the Commission of Public Works and copies will be mailed upon receipt of Ten Dollars ($10.00). This amount will be refunded upon return of plans and specifications in good condition.

The Commission of Public Works reserves the right to reject any and all bids.

M. J. O'HARA,
City Engineer.

HENRY M. JAMES,
Secretary, Commission of Public Works.

Bids received until July 13, 1914.

Pipe, Valves, etc.

Killeen, Texas.

Bids will be received by the Mayor and City Council of Killeen, Texas, and publicly opened on the 13th day of July, 1914, for the purchase by said City of

1500 feet of 8" cast iron pipe
550 feet of 6" cast iron pipe
8000 feet of 4" cast iron pipe
4 eight inch gate valves
1 six inch gate valve
9 four inch gate valves
20 fire hydrants
1 Motor driven deep well pump.

Complete list of material requirements can be had by addressing M. Griffin O'Neil & Sons, Praetorian Building, Dallas, Texas.

Bids received until July 20, 1914.

Steel and Concrete Bridge

Perth Amboy, N. J.

Sealed proposals will be received by the Board of Chosen Freeholders at their room in the County Record Building at New Brunswick, N. J., on MONDAY, JULY 20, 1914, at 2:30 o'clock for the construction of a Steel and Concrete bridge across the cut or crossing of the Lehigh Valley Railroad at Convery Place in the City of Perth Amboy; according to plans and specifications on file at the office of Thomas H. Hagerty, County Collector, New Brunswick, N. J., and at the office of Alvin B. Fox, Perth Amboy, N. J.

A deposit of Ten Dollars ($10.00) will be required for copies of plans which will be refunded upon the return of same in good condition.

Each bid must be accompanied by a certified check in the amount of $5000.00 payable to the order of Thomas H. Hagerty, County Collector, without any conditional endorsements, which check shall be forfeited should the successful bidder fail to enter into contract and bond within ten days from the award of the bid.

The Board reserves the right to reject any or all bids if in their opinion it is to the best interest of the County so to do.

A. J. GEBHARDT, Director.

Attest: ASHER W. BISSETT, Clerk.

Bids received until July 23, 1914.

Equipment for Sale

Sealed proposals will be received by the director of public service of the city of Columbus, Ohio, at his office in City Hall Building, until 12 o'clock noon, standard time, of July 23, 1914, when they will be publicly opened and read at that hour, for the following equipment, located in what is known as the West Side Pumping Station, on West Spring Street and the Olentangy River, Columbus, Ohio, in accordance with the specifications on file in the office of the superintendent of the division of water, City Hall Building, from whom copies may be obtained.

One Gaskle compound horizontal condensing pumping engine, capacity ten million gallons per day.

Two Holly horizontal compound condensing engines, capacity twelve million gallons each, per day of 24 hours, against the head of 200 feet with 80 pounds of steam.

The right is reserved to reject any and all bids.

S. A. KINNEAR,
Director of Public Service.

Attest: PAUL B. KEMPER, Clerk.

Bids received until July 23, 1914.

Filtration Plant Contract No. 2

Sealed proposals will be received at the office of the Commissioner of Purchases and Supplies, Room 513 City Hall, Cleveland, Ohio, until 12 M., July 23, 1914, for the construction of a concrete coagulant house and wash water reservoir.

Each bid must be made in accordance with the plans, specifications and proposal blank, copies of which may be obtained of the Commissioner of Water, at 413 Superior Avenue, Cleveland, Ohio, upon deposit of twenty-five ($25.00), which deposit may be redeemed by the return of the plans in good condition.

No proposal will be entertained unless made on the proposal blanks above mentioned and delivered at the office of the Commissioner of Purchases and Supplies previous to 12 M. on the day specified.

The City reserves the right to reject any or all bids.

Construction News

★ Denotes work advertised in ENGINEERING NEWS.
✚ Denotes contract awarded. The names of bidders awarded contracts are set in CAPITALS.

ENCOURAGEMENT IN THE BUILDING OUTLOOK

Figures have just been completed showing that in 22 cities of the country the plans filed in June this year called for an expenditure of $64,800,000, compared with $62,200,000 in the same month last year. A gain of nearly $3,000,000 was recorded in Eastern cities in June. This is by far the most favorable showing of the year, for it is a gain of 12%. For the first six months there was a falling off of 3.5%, showing a complete reversal of the trend.

In the West the outlook was good, but not as favorable as in the East. In 21 cities in the Middle West there was a gain in June of this year compared with last year of $800,000, or 2.5%. For the first six months of the year there was a decrease of 0.5%.

In eight cities in the Southern states there was a falling off of $1,166,000 in June, or 23%. For the half-year the decrease was less in proportion, amounting to $3,628,000, or 15.7%

For the entire country from which figures are available at this writing, including 51 cities, the building operations for the half year from plans filed with building inspectors amounted to $322,000,000, compared with $332,000,000 in the corresponding six months last year. The falling off of $10,000,000 is rather small, amounting to only 3%.

In the accompanying table is given the official figures representing the estimated cost of new buildings from plans filed with the building inspectors for June, 1914, and June, 1913. The table also includes the figures covering the first six months of this year and a similar period of last year.

EASTERN STATES

	Month of June 1914	Month of June 1913	First Six Months of Year 1914	First Six Months of Year 1913
Albany, N. Y.	$860,685	$165,615	$3,984,460	$1,869,265
Baltimore, Md.	2,983,082	746,567	6,765,186	5,381,404
Boston, Mass.	574,225	749,910	12,596,850	11,513,555
Bridgeport, Conn.	640,486	212,318	2,172,138	1,461 319
Buffalo, N. Y.	2,569,000	2,302,000	6,564,000	6,486 243
Elizabeth, N. J.	132,453	193,181	708,933	1,437,831
Hartford, Conn.	658,672	333,680	2,373,371	2,146,545
Hoboken	58,375	115,000	561,902	238,142
Jersey City	395,162	758,545	1,957,253	3,636,648
Newark, N. J.	586,220	1,089,772	4,072,237	8,223,991
New Haven, Conn.	440,271	341,776	1,978,410	2,096,612
New York, N. Y.				
Manhattan	3,393,350	4,423,575	26,276,740	35,053,135
Bronx	2,700,000	2,352,015	13,952,603	15,371,756
Brooklyn	5,298,550	2,927,450	22,604,150	16,539,551
Queens	2,530,655	1,151,838	10,800,167	9,188,456
Paterson, N. J.	186,326	84,524	848,911	757,619
Philadelphia, Penn.	3,557,895	4,204,795	21,105,720	21,339,270
Pittsburgh, Penn.	2,450,281	3,750,072	9,340,936	9,221,016
Reading, Penn.	67,575	25,350	910,200	425,675
Rochester, N. Y.	1,026,327	1,444,103	5,028,524	5,386,359
Scranton, Penn.	108,303		585,309	751,808
Springfield, Mass.	560,735	614,015	2,741,064	2,748,422
Syracuse, N. Y.	181,020	477,655		2,094,055
Worcester, Mass.	674,056	540,973	2,640,688	2,728,615
Totals	$32,525,391	$29,004,729	$160,570,352	$166,097,692
	Gain 12%		Decrease 3.2%	

MIDDLE WEST

Akron, Ohio	$398,325	$496,700	$1,973,070	$2,830,915
Chicago, Ill.	9,538,300	10,653,900	44,859,200	51,333,637
Cincinnati, Ohio	1,081,395	1,392,625	4,988,770	4,960,606
Cleveland, Ohio	3,126,545	1,803,805	14,689,365	9,820,840
Columbus, Ohio	625,650	567,791	3,220,855	2,696,803
Dallas, Tex.	588,945	936,015	3,483,563	5,160,105
Detroit, Mich	2,639,745	3,471,580	16,566,995	16,335,875
Des Moines, Iowa	193,475	230,350		
Duluth, Minn.	251,205	145,284	1,680,582	2,716,144
Evansville, Ind.	133,159	141,025	818,169	968,957
Grand Rapids, Mich.	203,227	362,707	2,306,508	1,447,315
Indianapolis, Ind.	814,238	952,025	4,956,405	5,110,907
Kansas City, Kan.	125,893			
Kansas City, Mo.	1,632,700	904,375	7,000,875	5,268,476
Milwaukee, Wis.	899,989	1,481,575	5,510,777	6,279,992
Minneapolis, Minn.	1,604,195	1,808,645	9,773,595	5,930,700
Omaha, Neb.	404,025	339,650	2,866,693	2,055,023
St. Louis, Mo.	1,374,798	2,196,415	7,818,052	9,366,577
St. Paul, Minn.	1,987,250	1,060,530	7,918,688	4,664,394
Salt Lake City, Utah	232,600	249,748	1,396,314	1,149,735
San Antonio, Tex.	240,090	160,002		
Toledo, Ohio	881,113	404,651	3,843,638	2,833,327
Totals	$29,659,398	$28,850,969	$142,930,331	$143,672,114
	Gain 2.5%		Decrease 0.5%	

SOUTHERN STATES

Atlanta, Ga.	$419,654	$656,189	$2,999,797	$3,109,157
Birmingham, Ala.	572,189	577,189	1,882,611	4,395,335
Chattanooga, Tenn.	60,145	132,715	633,440	630,875
Louisville, Ky.	517,540	367,780	2,557,855	2,287,510
Memphis, Tenn.	283,012	715,643	2,014,882	2,512,024
New Orleans, La.	364,599	643,264	1,427,990	2,496,700
Richmond, Va.	172,539	152,778	2,099,821	2,068,670
Washington, D. C.	942,325	1,253,315	5,647,819	5,492,073
Totals	$3,332,003	$4,498,873	$19,264,215	$22,992,344
	Decrease 23%		Decrease 15.7%	

RAILWAYS

New York—Buffalo, Lockport & Rochester Ry.—This company plans to extend its line from Lockport, N. Y., to Niagara Falls, N. Y. H. C. Prather, Rochester, N. Y., is Gen. Mgr.

Pennsylvania—Pennsylvania R.R.—The Public Service Commission, June 19, approved the proposed lease of the railroad and other property and franchises of the Northern Central Ry. Co. to the Pennsylvania R.R. Co., and also approved the petition for a certificate of valuation authorizing an increase in the capital stock of the Northern Central Ry. from $9,342,550 to $27,079,600. A certificate will not be issued in either case, however, until the commission's accountant has investigated the financial statements made to the commission concerning this matter.

The Northern Central Ry. extends from Baltimore, Md. to Sunbury, Penn., and has 450 miles of track.

✚Gleasonton & Paddy's Run R.R.—This company has awarded the contract to PETER CILLO, Williamsport, Penn., for grading and track-laying on its proposed line out of Gleasonton, Penn. The contract for bridge work has been awarded to the AMERICAN BRIDGE CO. E. C. Wakefield, Gleasonton, is Ch. Engr.

Maryland—Pennsylvania R.R.—See item under Pennsylvania.

✚**Virginia**—Southern Ry.—This company has awarded contracts for 19 miles of double-track work on its Washington Division between Amherst and Elma, Va., as follows: From Amherst to Tye River, eight miles, to C. W. LANE & CO., Atlanta, Ga.; from Tye River to Elma, 11 miles, to H. J. DUNAVANT & CO., Chattanooga, Tenn.

Florida—White Springs & Suannee River R.R.—It is reported that financial arrangements have been made to construct this company's proposed line from Live Oak, Fla., to White Springs, Fla., 20 miles. A. E. Glass, Pensacola, Fla., is interested.

Alabama—Nashville, Chattanooga & St. Louis Ry.—This company, it is reported, is having surveys made for a line from Guntersville, Ala., to Huntsville, Ala., 30 miles. H. McDonald, Nashville, Tenn., is Ch. Engr.

Bay City, Lynn Haven & Northern Ry.—This company has been organized for the purpose of constructing a line from Chipley, Ala., to Hartford, Ala., 28 miles. The Chamber of Commerce of Montgomery, Ala., is interested.

Mississippi—Nashville, Shiloh & Corinth R.R.—See item under Tennessee.

Tennessee—Nashville, Shiloh & Corinth R.R.—The citizens of Hardin County have voted to issue $240,000 in bonds to aid this company to construct its proposed line from Nashville, Tenn., to Corinth, Miss. C. C. Thoms, Corinth, Miss., is interested. Noted Apr. 9 and May 28.

Tennessee—Gulf & Bay Ry.—This company has been incorporated for the purpose of constructing a railroad from Embreeville, Washington County, Tenn., to the state line between the states of North Calorina and Tennessee at a point in Unicol County, via Erwin Unicol County, Tenn. The incorporators are William A. Roberts, J. F. Torey, R. M. Barry, I. R. Roberts, J. L. Tucker, I. R. Love, J. D. S. Rybcon and N. T. Tucker.

Indiana—Wabash R.R.—This company plans to start work soon on proposed track elevation work at Taylor St. and Thompson Ave., Fort Wayne, Ind. A. O. Cunningham, St. Louis, Mo., is Ch. Engr.

Montana—The construction of a railroad from Rimini, Mont., to the porphyry dike, Helena, Mont., is under consideration. James Breen, Helena, is interested.

Missouri—Terminal R.R. Association of St. Louis—This company has been authorized by the State Public Service Commission to issue $1,000,000 in bonds for improvements. A. S. Johnson, St. Louis, Mo., is Supt.

Missouri—Chicago, Rock Island & Pacific Ry.—This company has been granted permission to issue $1,216,000 in bonds for general betterment work. J. W. Waber, Carlisle, Iowa, is Engr. Const.

Arkansas—Missouri, Arkansas & Southwestern R.R.—This company has been organized to construct a railroad from Hot Springs, Ark., to Mena, Ark., 65 miles. The construction work will include two one-span bridges over the Caddo River and one four-span bridge over the Quachita River. W. E. Womble, Womble, Ark., is interested. Noted July 2.

Texas—See item under Miscellaneous: Terminal—Dallas, Tex.

Texas—Missouri, Kansas & Texas Ry.—This company, which is building terminals at San Antonio, Tex., will extend its lines from San Antonio to a point along the Rio Grande. G. A. Webb, Austin, Tex., is Gen. Mgr.

Altus, Lubbock & Roswell R.R.—It is reported that construction work on this company's proposed line will soon be resumed. The line was recently sold by Edward Kennedy and associates to a syndicate which is composed of O. L. Slayden and F. E. Wheeler of Lubbock, Tex., and J. M. West, E. C. Noble and Carey Shaw, of Houston, Tex. The road is

already completed between Altus, Okla., and Wellington, Tex., a distance of 60 miles, and the grade of the division between Memphis, Tex., and Lubbock, Tex., 86 miles, is practically finished and ready for the rails.

Idaho—Oregon-Washington R.R. & Navigation Co.—This company plans the construction of a line from Moscow to Bovill, Idaho, a distance of 26 miles. J. R. Holman, Portland, Ore., is Ch. Engr.

Idaho—Boise—Payette Lumber Co.—This company has started work on 14 miles of its proposed line into the Boise Basin. C. A. Barton, Minneapolis, Minn., is Vice-Pres. and Gen. Mgfr. Noted Apr. 16.

✚**Washington**—Oregon Washington R.R. & Navigation Co. —Twoby Bros., Portland, Ore., recently awarded the contract by this company for constructing its line from Chambers Prairie Station, Wash., to Olympia, Wash., have sublet the work to the RAJOTTE, FOBERT & WINTERS CONSTRUCTION CO. Noted June 25.

California—T. S. Montgomery, San Jose, Calif., is interested in the construction of an 18-mile standard-gage railroad from Niles, Calif., to San Jose, Calif.

Bay Shore R.R.—This company has been incorporated for the purpose of constructing a railroad from Ocean Beach to Bird Rock, Calif. Capital, $200,000. The offices of the company will be located at San Diego, Calif.

Preliminary surveys have been made and plans outlined for constructing a railroad from Pasadena, Calif., to Los Angeles, Calif., 9¼ miles. T. D. Allin, Comr. Pub. Wks. of Pasadena, is interested. Noted June 25.

California—Southern Pacific Co.—This company plans to spend $1,000,000 in reconstructing its terminal system at San Francisco, Calif. William Hood, San Francisco, is Ch. Engr.

✚**Quebec**—Quebec Central Ry.—This company has awarded the contract to P. J. WOLFE, Sherbrooke, Que., for constructing the first section of 10 miles on its extension from St. Sabine, Bellechasse County, Que., northeast to Las Le Frontier, Montmagny County, 25 miles. Five miles of the extension have been completed. The work calls for one steel bridge. Noted May 21.

British Columbia—Canadian Northern Ry.—This company has filed plans for its proposed tunnel from Burrard Inlet to its False Creek, B. C., yards. Estimated cost, $750,000. H. H. McLeod, Winnipeg, Man., is Gen. Mgr. and Ch. Engr.

ELECTRIC RAILWAYS

Worcester, Mass.—The Worcester Consolidated Street Ry. Co. is considering plans for the construction of a one-mile extension to its line from June and Chandler Sts. to Park Ave. and Chandler St. H. C. Page, Worcester, is Gen. Mgr.

Providence, R. I.—The City Council has granted a franchise to the Rhode Island Co. for the construction of an electric railway on Mount Pleasant Ave., from Chalkstone to Atwell's Ave., in Providence. A. E. Potter, Providence, is Pres. and Gen. Mgr.

Schenectady, N. Y.—The Schenectady Ry. Co. is preparing plans for the extension of its lines to the Grand Boulevard section and to South Schenectady. James F. Hamilton, Schenectady, is Gen. Mgr.

Lebanon, Penn.—The Ephrata & Lebanon Street Ry. Co. has been incorporated to construct and operate an electric railway from Ephrata to Lebanon. The incorporators are C. D. Siegle, Charles D. Lawrence, Henry O. Evans and E. T. Noble.

New Oxford, Penn.—Preliminary arrangements are being made by the Hanover & McSherrystown Street Ry. Co. for the construction of its proposed electric railway from Conewago Chapel to New Oxford, about four miles. Robert E. Manley, Hanover, is Gen. Mgr. and Pur. Agt.

✚**Uniontown, Penn.**—The Uniontown Radial Street Ry. Co. has awarded the contract for the construction of an electric railway from Oliver to Uniontown to REAGAN, LYNCH & CO.

Overlea, Md.—The Public Service Commission has ordered the United Rys. & Electric Co. to extend its line on Belair Road from Overlea to Neckar, about three miles. T. A. Cross, Baltimore, is Vice-Pres. and Gen. Mgr.

Philippi, W. Va.—The Philippi & Clarksburg Traction Co. has been incorporated to construct and operate an electric railway from Philippi to Clarksburg. The incorporators are: Samuel V. Woods, J. H. Woods, R. E. Talbott, Henry H. Byrer, J. C. Watson and E. R. Dyer, all of Philippi. Noted Mar. 19.

Wilmington, N. C.—The Wilmington-Carolina Beach Ry. Co. contemplates the construction of an electric railway to connect Wilmington with Wilmington and Carolina Beaches, about 15 miles. George F. Meares, Wilmington, is interested.

Hattiesburg, Miss.—Plans are being prepared by the Hattiesburg Traction Co. for the extension of its line to the Woman's College in Hattiesburg. C. Z. Stevens, Hattiesburg, is Gen. Mgr.

Alexandria, La.—The Alexandria Electric Rys. Co. is considering plans for the extension of its lines in Alexandria. Ernest Boehme, Alexandria, is Vice-Pres. and Gen. Hgr.

Taylorsville, Ky.—Plans have been prepared for the construction of a nelectric railway from Taylorsville to Jeffersontown ,about 22 miles. I. J. Jewell, Taylorsville, is interested. Noted May 21.

Kendallville, Ind.—Plans are being considered by the Fort Wayne & Northwestern Ry. Co. for the construction of an electric railway extension from Kendallville to Rome City, about five miles. C. J. Munton, Kendallville, is Treas. and Gen. Mgr.

Murphysboro, Ill.—The Murphysboro & Southern Illinois Ry. Co. is obtaining the right-of-way for the construction of its propose delectric railway from Murphysboro to Carbondale ,about seven miles. A. B. Minton, Murphysboro, is interested.

Cedar Rapids, Iowa—The City Council has granted a franchise to the Iowa Ry. & Light Co. for the extension of several of its lines on various streets. R. S. Cok, Cedar Rapids, is Pur. Agt.

Wichita, Kan.—The North & South Ry. Co. has been incorporated to construct an electric railway to connect Wichita, Concordia and Washington, Kan., about 200 miles.

Brookfield, Mo.—Plans are being prepared for the construction of an electric railway to connect Brookfield, Marceline, Randolph Springs, Wien and other towns in the vicinity.

Corpus Christi, Tex.—Preliminary arrangements are being made by the Corpus Christi Street & Interurban Ry. Co. for the improvement of its railway lines in Corpus Christi. S. Heinly, Corpus Christi, is Secy. and Gen. Mgr.

Dallas, Tex.—Plans are being considered for the construction of a nelectric interurban railway from Dallas to Wichita Falls via Denton, about 125 miles. Joseph A. Kemp, Wichita Falls, and J. R. Babcock, Dallas, are interested.

The Court of County Commissioners has granted a franchise to D. Sonnentheil to construct and operate an electric railway from the Junius Heights line through the Lakewood Addition. Noted July 2.

Galveston, Tex.—The Galveston Electric Co. has applied to the City Council for a franchise to construct an extension to its line on Ave. H and for several other short extensions in Galveston. Harry B. Sewell, Galveston, is Gen. Supt.

Victoria, Tex.—The construction of an electric interburban railway from Victoria to Houston is contemplated. John T. Land, Secy. Chamber of Commerce, Victoria, is interested.

Pasadena, Calif.—Preliminary surveys have been made for the constructio nof a municipal electric railway from Pasadena to Los Angeles. Estimated cost, $2,060,000. Lewis E. Smith is City Engr. Noted June 4.

San Diego, Calif.—Preliminary arrangements are being made by the Point Loma Ry. Co. for the extension of its line to the wireless station and to Fort Rosecrans. B. M. Warner, San Diego, is Gen. Supt. Noted July 2.

San Francisco, Calif.—(Official)—Bion J. Arnold is engaged in the appraisal of the Oakland, Antioch & Eastern R.R., which operates an electric railway from San Francisco to Sacramento.

LIGHT HEAT AND POWER

✚**Holyoke, Mass.**—The Holyoke Street Ry. Co. has awarded a contract to the CASPER RANGER CONSTRUCTION CO., for the construction of the additions to its power plant on Berkshire St.

Greenwich, Conn.—The Greenwich Citizens Gas Co., which was recently organized with a capital of $500,000, will build a gas plant at Cos Cob consisting of a gasometer of 250,000 cu.ft. capacity and four buildings, 25x25 ft., 25x45 ft., 30x55 ft. and 60x120 ft. respectively, all of reinforced concrete.

★**Albany, N. Y.**—(Official)—Bids will be received by the Trustees of Public Buildings, Executive Chamber, Capitol, until 2 p.m., July 20, for electric wiring for book stacks for the State Education Building, Albany. Lewis F. Pilcher is State Arch.

★**Albany, N. Y.**—(Official)—Bids will be received by the Trustees of Public Buildings, Executive Chamber, Capitol, until 2 p.m., July 20, for lighting fixtures, etc., for the State Capitol Building. Lewis F. Pilcher is State Arch.

Belmar, N. J.—The Board of Public Utility Commissioners has granted permission to the Coast Gas Co. to issue bonds for $134,000, to be used to make extension of its system to Sea Girt, Villa Park and Bay Head, and for additions and improvements at its local plant.

Camden, N. J.—The Public Service Electric Co. plans to install an underground conduit system to replace its overhead lines. The improvement is estimated to cost $250,000, and will be made at the rate of $25,000 per year. Dudley Farrand, Newark, is Gen. Mgr.

Barboursville, W. Va.—The City Council contemplates the installation of a municipal electric-light plant. Estimated cost, $5000.

Reynolds, Ga.—Plans are being prepared by the J. B. McCrary Co., Atlanta, for the construction of a municipal electric-light plant in Reynolds. G. L. Cooper is Clk. Noted June 11.

St. Martinsville, La.—Plans are being considered for the installation of an electric-light plant at St. Martinsville.

Catawba, Ohio—A transmission line will be constructed from Catawaba to connect with the lines of the Ohio Service Co. at South Vienna, about five miles. An electric-light system will be established at Catawba.

Cincinnati, Ohio—The Cincinnati Ice Co. has had plans prepared for the construction of a new ice plant on Price Hill, and will make extensive improvements to its two existing plants.

Dennison, Ohio—Plans are being prepared by the Lafayette Light & Power Co., Coshocton, Ohio, for the construction of a transmission line from New Comerstown to Dennison.

Troy, Ohio—Bids will be received by Mahlon T. Staley, County Audr., until July 17, for installing a heating plant in the Miami County Infirmary.

Decatur, Mich.—At a recent election bonds for $15,000 were voted, the proceeds of which will be used for the construction of a municipal electric-light plant.

Ashland, Ill.—Plans are being prepared by the Abbott Light & Power Co., for the construction of a substation at Ashland. R. H. Abbott, Petersburg, is Pres. and Mgr.

Havana, Ill.—Plans are being prepared for the installation of a power plant which will be used only for the operation of an ornamental street-lighting system. L. W. Ames, Secy. of the Commercial Club, is interested. Noted June 25.

Joliet, Ill.—According to press reports the Public Service Co., of northern Illinois, contemplates an expenditure of $1,000,000 for the construction of a power dam and generating plant at Dresden Heights. George H. Lukes, Chicago, is Gen. Supt.

Denison, Iowa—J. B. Hill, Iowa City, is preparing plans for the construction of a municipal electric-light plant at Denison. Noted Jan. 8 and Feb. 5.

Lorimor, Iowa—Gilbert Johnson, Osceola, has been granted a franchise by the City Council to construct and operate an electric-light plant at Lorimor.

Bagley, Minn.—J. F. Druar, Consult. Engr., Commercial Bldg., St. Paul, Minn., is preparing plans for the reconstruction of the municipal electric-light plant at Bagley.

Bird Island, Minn.—The Renville County Electric Co. plans the construction of a transmission line to Buffalo Lake. J. H. Yarnell is Mgr.

+Little Fork, Minn.—S. S. Chapelle has awarded a contract for the construction of an electric-light plant at Little Fork to H. E. DUDREY, Moorhead, Minn.

Alton, Kan.—(Official)—See item under "Water Supply and Irrigation."

Canton, Kan.—The city will install a substation to furnish current for the street-lighting system. Philip R. Dunton, McPherson, is Engr.-in-Charge.

Neligh, Neb.—Plans have been prepared for the improvement and enlargement of the local electric-light plant. J. Y. Spirk is Egr.

Parker, S. D.—Plans are being prepared by J. F. Druar, Engr., Commercial Bldg., St. Paul, Minn., for the installation of a municipal electric-light plant at Parker.

Westby, N. D.—The installation of an electric-light plant in Westby is under consideration.

Fort Benton, Mont.—Plans are being considered by the City Council for the expenditure of $17,000 for the purchase of the electric-light plant and the improvement of the same.

Glendive, Mont.—E. T. Williams and R. B. Morrison have been granted a franchise by the city for the installation of a gas plant at Glendive.

Hamilton, Mo.—True D. Parr and C. A. Martin were granted a franchise to construct an electric-light and power plant at the recent election at Hamilton.

St. Joseph, Mo.—The City Council is considering plans for the enlargement and improvement of the municipal electric-light plant. W. E. Gorton is Supt.

Childress, Tex.—The electric-light plant, which was recently destroyed by fire, will be rebuilt at a cost of about $30,000.

Corpus Christi, Tex.—George M. Kennedy and associates have applied to the City Council for a franchise to use the streets for a natural-gas distributing system which they propose to lay. The gas will be brought from the White Point field, which is seven miles from Corpus Christi.

Marble Falls, Tex.—The Colorado River Power Co., which is headed by C. H. Alexander, Dallas, is preparing to construct a dam and hydro-electric plant on the San Saba River. The company is building a dam and hydro-electric plant on the Colorado River at Marble Falls.

Napier, Tex.—The Northeast Electric Co., of Texas, has been organized for the purpose of constructing an electric-light and power plant at Napier.

Antonio, Colo.—B. Desman, Salida, contemplates the construction of an electric-light plant at Antonio. Estimated cost, $10,000.

Seattle, Wash.—The City Council has made an appropriation of $10,000 to be used in the construction of a 76-in. pentock from the dam of the Cedar River power plant to the power house. This work is planned to strengthen and improve the power plant, and eventually the new penstock will replace the present wooden pipe lines, which are 48- and 68-in. ducts.

+Mapleton, Ore.—Richard Clow, who was recently granted a light and power franchise, has awarded to C. A. ELKINS and FRANK SHELL, Eugene, the contract for the erection and installation of a hydro-electric plant near Mapleton, for the generation of electric light and power. The dam will be of concrete, and a 12-in. pipe line, 2000 ft. long, will be laid. Noted June 25.

San Francisco, Calif.—The Contra Costa Gas Co. has been organized with a capital of $250,000 to install gas plants in Centra Costa County. J. E. Rodgers, Martinez, Calif., is interested.

Chatham, Ont.—The City Council will install an electric-lighting system along the river bank. W. G. Merritt is City Clk.

St. Catherines, Ont.—J. S. Campbell, Comr., will have plans prepared and call for bids for a new electric-lighting system to cost $18,000.

Simcoe, Ont.—The Town Council has passed a bylaw to provide $40,000 for the construction of a plant for street and commercial lighting. W. C. McCall is Town Clk.

Rossland, B. C.—The West Kootenay Power & Light Co. is preparing plans for the construction of a new electric-lighting system at Rossland.

+Victoria, B. C.—The SOUND CONSTRUCTION & ENGINEERING CO., Seattle, Wash., has been awarded a contract for the construction of a power plant for the Royal Jubilee Hospital at Victoria. Estimated cost, $26,200.

BRIDGES

+Lewiston, Maine—The contract has been awarded to the WATSON MFG. CO., Paterson, N. J., for constructing a railroad bridge in Lewiston at $43,000.

Boston, Mass.—The following bids have been received by the Metropolitan Park Commission for reconstructing Wellington foot-bridge to take the place for a time of the one recently burned: Rendle & Stoddard, Boston, $32,568; H. P. Converse Co., Boston, $33,628; H. P. Nawn Contracting Co., Boston, $36,993; Wm. H. Ellis & Sons Co., $37,726; Holbrook, Cabot & Rollins Corporation, $40,080; Wm. L. Miller & Co., $44,100; Lawler Bros., $47,420; H. S. & S. T. Rendle, $48,024. No award is to be made until an appropriation is available. J. A. Rablin, 15 Beacon St. is Ch. Engr. Noted June 11.

+New York, N. Y.—The New York Central & Hudson River R.R. Co. has awarded the contract to R. P. JOHNSON, 149 Broadway, New York, for constructing the superstructures, including timber work, concrete work, paving and all incidntal work for 12 overhead bridges, one overhead bridge and one railroad bridge on the Hudson River Division.

Burlington, N. J.—A civic commission has been organized to arrange for the construction of a bridge between Burlington and Bristol, to be known as the John Woolman Memorial Bridge. E. E. Mount, Mayor of Burlington is Chn.

+Burlington, N. J.—The FERRO CONCRETE CO., Harrisburg, Penn., has been awarded the contract for a reinforced concrete arch bridge over Pensauken Creek, at Five Points, by the Burlington County Board of Chosen Freeholders.

Gleasonton, Penn.—See item under Railways: Pennsylvania-Gleasonton & Paddy's Run R.R.

+Hollidaysburg, Penn.—(Official)—Bids were opened, June 30, by the County Commissioners, of Blair County, Hollidaysburg, for constructing 11 reinforced concrete bridges in various parts of the county. Contracts were awarded to E. H. BRUA, Hollidaysburg; CURWENSVILLE CONSTRUCTION CO., Curwensville, Penn., FOGEL & CO., Hollidaysburg; LOOMIS & KING, Altoona, Penn.; VIPOND CONSTRUCTION CO., Altoona.

+Philadelphia, Penn.—The contract has been awarded to STACEY REEVES & SONS, 2011 Market St., Philadelphia, for the erection of two steel bridges at Delaware Ave. and Morris St., for the John T. Bailey Rope Works. Peuckert & Wunder are Engrs.

Pittsburgh, Penn.—The city is considering the reconstruction of the Sylvan Ave. Bridge at a cost of $'30,000. Robert Swan is City Engr.

+Uniontown, Penn.—The West Penn Rys. Co., June 22, awarded the contract to the PENN BRIDGE CO., Beaver Falls, Penn., for constructing a 195-ft. bridge over the Pennsylvania R.R. tracks at Uniontown. J. L. Fritsch is Ch. Engr., West Penn Rys.

Lonaconing, Md.—Bids will be received until July 10, by the city for constructing a bridge over Georges Creek. Estimated cost, $8000. William Harvey is City Engr. Noted May 21.

Leesburg, Va.—(Official)—Bids will be received until noon, July 16, by P. St. J. Wilson, State Highway Comr., Richmond, at the office of the Clerk, Leesburg, for constructing a reinforced concrete bridge over Crouch's Creek in Loudoun County; also for a reinforced concrete bridge over Horse Pen Creek, same county.

Bids will be received at the same place as above until noon, July 26, for constructing a reinforced concrete bridge over Broad Run., Loudoun County.

Petersburg, Va.—The plans of R. D. Budd, City Engr., for a bridge over the Appomattox River have been approved by the War Department. Estimated cost $55,000.

Mount Holly, N. C.—The Commissioners of Mecklenburg County, Charlotte, N. C., in conjunction with the Commissioners of Gaston County, will construct a bridge over the Catawba River at Mt. Holly. Estimated cost, $20,000.

Charleston, S. C.—The Carolina, Atlantic & Western R.R. plans to construct a bridge across Goose Creek, Charleston.

Arcadia, Fla.—Bonds for $350,000 have been voted by District No. 5 of De Soto County for constructing bridges and roads. H. E. Anschutz, Arcadia, is Highway Engr.

Batesville, Miss.—Bids will be received by R. W. Draper, County Clk., Batesville, for constructing a 1420-ft. steel trestle on Belmont Levee.

Meridian, Miss.—The city, the Meridian Lt. & Ry. Co., and the Alabama Great Southern R. R. Co., June 23, adopted plans for the proposed bridge to be constructed over the railroad tracks at 22nd Ave. T. A. McCaskill is City Clk.

Bowling Green, Ohio—Bids will be received until 1 p.m., July 27, by the County Commissioners, Bowling Green, for the construction of a reinforced concrete arch bridge in Washington Township. C. E. Stinebaugh is County Audr.

Caldwell, Ohio—(Official)—Bids will be received until 11 a.m., July 11, by M. C. Jones, County Audr., Caldwell, for constructing eight bridges in various parts of the county. Estimated cost, about $7500.

Cincinnati, Ohio—The County Commissioners of Clemont and Hamilton Counties have awarded contracts for the Miamiville and Remington Bridges as follows: Superstructures for both bridges, to the ROCHESTER BRIDGE CO., Rochester, Ind., at $18,620 each; substructure of Miamiville Bridge, to PETER PRAECHTER, Cincinnati, at $36,070; substructure of Remington Bridge, to CHARLES STAAB, Cincinnati, at $10,344.

Cincinnati, Ohio.—Bids will be received until noon, July 31, by the County Commissioners, Cincinnati, for constructing two concrete bridges on the Van Zandt Road. Albert Reinhardt is Clk.

Cleves, Ohio—The County Commissioners, Cincinnati, June 27, approved an estimate of $6188 for the approaches of the bridge over the Big Miami River at Cleves.

Covedale, Ohio—The Chesapeake & Ohio Ry. plans to construct a viaduct over its tracks at Ferguson Rd., Covedale. F. I. Cabell, Richmond, Va., is Ch. Engr.

Lima, Ohio—Chester & Fleming, Consult. Engrs., Pittsburgh, Penn., have completed plans for the bridge to be constructed at Pine St.

Miamisburg, Ohio—Bids will be received until July 11 by the Montgomery County Commissioners, Dayton, for constructing the substructure of the Linden Ave. Bridge. Victor Smith, Dayton, is County Surv. Noted July 2.

+Indianapolis, Ind.—The Board of Public Works, June 24, awarded the contract to the CENTRAL STATES BRIDGE CO. for constructing the superstructure of the proposed bridge across Pleasant Run at Minnesota St., at $7385.

✝Manistee, Mich.—The county has awarded the contract to the CONTINENTAL BRIDGE CO., Chicago, Ill., for constructing the proposed bridge at Manistee, at $6500.

✝Metropolis, Ill.—(Official)—The contract has been awarded to the UNION BRIDGE & CONSTRUCTION CO., Sharp Bldg., Kansas City, Mo., for putting in seven pneumatic piers for a double-track bridge over the Ohio River at Metropolis, Ill. The bridge is being built by the Paducah & Illinois Ry. Co., a subsidiary of the Chicago, Burlington & Quincy Ry. Co. and the Nashville, Chattanooga & St. Louis Ry. Co. The contract will amount to about $1,100,000. The finished bridge will cost about $3,500,000. The total length of the bridge including the approaches will be 5650 ft. The bases of the pneumatic piers are quite large, one being 60x110 ft.; three bases, 60x90 ft.; one base 55x90 ft.; and one base 45x90 ft. The piers are to be sunk about 90 ft. There will be approximately 84,000 cu.yd. of concrete in the seven piers. Work is to start immediately. The approaches are to be put on pile foundations and will be constructed by the railroad company's forces. The steel spans are to be of the Petit type of truss, the longest being 722 ft. four spans will be 555 ft. and one span, 304 ft., center to center of pins. C. H. Cartlidge is Ch. Engr. for the company, C. R. Fickes will be Res. Engr. and H. K. Seltzer will represent the contractors during the construction of the bridge.

✝Couderay, Wis.—The city has awarded the contract to the WARDEN ALLEN CO., Milwaukee, Wis., for constructing three reinforced concrete bridges.

✝Eau Claire, Wis.—The contract has been awarded the UNION CONSTRUCTION CO., Eau Claire, for the construction of the new reinforced concrete bridge over Otter Creek between Eau Claire and Altoona, Wis.

Muscatine, Iowa—The City Council, June 18, instructed C. H. Young, City Engr., to prepare plans and specifications for a bridge to be constructed over Mad Creek at East Second St. Estimated cost, about $251,000.

✝Bemidji, Minn.—(Official)—The county has awarded the contract to GEORGE W. CLIFFORD, for constructing 35 bridges, at $12,693. Bids were opened June 26. Noted June 18.

Le Sueur, Minn.—The city is receiving bids for the construction of 350-ft. steel bridge. J. A. Morgan is City Clk.

St. Paul, Minn.—The City Council, June 24, approved plans for the viaduct to be constructed over the tracks of the Chicago, Milwaukee & St. Paul Ry. tracks.

Winona, Minn.—The city plans to construct a bridge to cost $100,000. H. B. Walling is City Engr.

Worthington, Minn.—Bids will be received until 2 p.m., July 13, by Gus Swanberg, County Audr., Worthington, for constructing bridges in Hersey and Westside Townships.

Atchison, Kan.—The Atchison, Topeka & Sante Fe Ry. Co. and the Missouri Pacific R. R. Co. have agreed to construct a viaduct over their tracks in West Atchison.

Grantville, Kan.—W. J. Arnold, Topeka, Kan., Shawnee County Engr., is preparing plans for a bridge to be constructed over the Kansas River, near Grantville., to connevt Shawnee and Jefferson Counties.

Hays City, Kan.—Bids will be received at the office of P. V. Gotteschalk, County Clk., Hays City, until noon, July 20, for the construction of two bridges in Ellis County.

✝Kansas City, Kan.—Bids will be received until July 27 by the Wyandotte County Commissioners, Kansas City, for constructing a high-line bridge across the Kaw River, known as the 23rd St. Traffic Way. Estimated cost, $300,000. Frank Holcomb is County Clk. Noted June 18.

Salina, Kan.—Wilmarth & Zerbe, Engrs., Salina, have been commissioned by the County Commissioners to prepare plans and specifications for the proposed bridge at Iron Ave., Salina. Estimated, $300,000. Noted Apr. 30.

Salina, Kan.—The Salina St. Ry. Co. will construct a new steel girder bridge over Smoky Hill River. H. C. Smither is Pres.

Rugby, N. D.—Bids will be received until July 21 by Henry Albertson, County Audr., Rugby, for constructing a reinforced concrete bridge.

✝Kansas City, Mo.—Bids were opened by the County Court, Kansas City, June 24, for constructing the approaches to the bridge on Stayton Rd., over the tracks of the Missouri Pacific R.R. The lowest bid was submitted by and contract awarded to PHILLIPS & WINFREY at $14,831. Noted June 18.

Angleton, Tex.—Bids will be received until July 13 by J. W. Munson, County Judge, Angleton, for constructing three bridges, one each at Bernado, Hinkle's Ferry and Churchill's Ferry.

Dallas, Tex.—See item under Miscellaneous: Terminal—Dallas, Tex.

Lockhart, Tex.—Bonds will be issued by the city to construct a bridge on North Commerce St.

★Rockport, Tex.—(Official)—We are advised by Percival & Son, Engrs., Rockport, that the general proposition regarding the proposed Copano Causeway has been somewhat altered, in that the railroad promoters connected with the project have been unable to satisfy the county authorities of their claims to make good in sufficient time. It is probable that the county will take the matter under advisement, complete the survey and then call for bids. Noted June 25.

✝San Antonio, Tex.—The city, June 24, awarded the contract to the BEXAR CONSTRUCTION CO., Bexar, for constructing the proposed bridge over Alezan Creek, at West Commerce St., at $8390.

✝Yuma, Ariz.—The contract has been awarded to the OMAHA STRUCTURAL STEEL CO., Omaha, for constructing a steel bridge over the Colorado River near Yuma, at $72,500.

✝Dryden, Wash.—The County Court of Chelan County has awarded the contract for the construction of a reinforced concrete bridge near here to BAILEY & O'CONNOR, W[illegible]chee, Wash., at $24,965.

Ellensburg, Wash.—Bids will be received until noon [illegible]ly 14, by the County Commissioners, Ellensburg, for constructing three concrete bridges.

✝Everett, Wash.—The contract has been awarded to GEORGE H. GRIFFIN, Seattle, for the steel bridge to be constructed over the Skykomish River, at $32,109. The bridge will have three steel spans, with concrete abutments, and will be 308 ft. long.

The County Commissioners, Everett, plan to construct four bridges and a roadway to cost $165,000.

Walla Walla, Wash.—E. B. Shifley Engr., Walla Walla, is preparing plans for a bridge to be constructed across the Touchet River, known as the Dell Sharp Bridge, recently destroyed. Estimated cost, about $8000.

✝Astoria, Ore.—The County Court of Clatsop County has awarded the contract for the construction of five steel bridges to the PORTLAND BRIDGE CO., Portland, Ore., at $18,500.

Portland, Ore.—Bids will be received by W. L. Mulvey, County Clk., Multonomah County, until July 10 for the construction of the Bear Creek Bridge, near Needy, Ore. Bids were to have been opened June 11, but the time was extended.

Portland, Ore.—Plans for the viaduct over Holgate St., to be built by the Oregon-Washington R.R. & Navigation Co. and the Southern Pacific Co. jointly, have been prepared by the City Department of Highways and Bridges. The structure will be of steel, and will cost about $55,000. The present plans replace those previously prepared by the railway companies, but rejected by the city. John R. Hanson is City Engr.

Esparto, Calif.—The County Surveyor, Woodland, Calif., has completed surveys for a bridge to be constructed across Cache Creek north of Esparto. Estimated cost, $35,000.

Sacramento, Calif.—(Official)—Bids will be received until 2 p.m., July 20, by the California Highway Commission, Sacramento, for constructing the Yolo Basin Viaduct. Bids opened June 8 for this work were rejected. Austin B. Fletcher State Highway Engr., has estimated the cost at $363,800. Noted Feb. 26, Mar. 12, Apr. 30 and June 25.

San Jose, Calif.—Bids will be received by the Board of Supervisors of Santa Clara County until July 20 for the construction of a reinforced-concrete bridge over Llagas Creek on Martin Ave., San Jose.

Sonora, Calif.—Bids will be received by the County Supervisors, Sonora, until Sept. 7, for constructing a 94-ft. concrete bridge with an 18-ft. roadway over Sullivan Creek. Estimated cost, $6000. E. E. Newell is County Surv.

✝McTaggart, Sask—The Provincial Government Board of Highway Commissioners has awarded the contract to the PARSONS CONSTRUCTION & ENGINEERING CO., LTD., Regina, Sask., for constructing a reinforced concrete bridge and dam near McTaggart at about $8000.

WATER SUPPLY—IRRIGATION

West Pownal, Maine—Bids will be received until July 30 for the construction of a concrete reservoir at the Maine School for Feeble Minded. Arthur B. Fels, 60 Union St., Portland, is the Engr. Carl J. Hedin is the Supt.

✝Lewiston, Maine—(Official)—The contract for installing new pumps at the water works has been awarded by C. J. Callahan, Clk. to the DEAN STEAM PUMP CO., Holyoke, Mass. Y. B. Longley is Supt. Noted June 25.

Beverly, Mass.—The city will lay water mains in Rantoul St. at an estimated cost of $54,000.

Boston, Mass.—Bids will be received by the Public Works Department until July 15 for laying and relaying 7500 ft. of 30-in. water pipe in Columbus Ave., Roxbury District. L. K. Rourke is Comr.

The Metropolitan Water Commission plans to erect a stand pipe in West Roxbury district costing $75,000. Dexter Brackett is Ch. Engr. Mertopolitan Water Comn.

Fall River, Mass.—The Watuppa Water Commission has had plans prepared for the construction of conduits along the west shore of the North Watuppa Pond. Estimated cost, $20,000.

Haverhill, Mass.—See item under "Sewers."

Lowell, Mass.—The Commissioner of the Water Department has recommended the erection of a purification plant to cost $250,000. William L. Vennard is City Engr.

Webster, Mass.—On June 29, bonds for $75,000 for the construction of a concrete reservoir with a capacity of 1,600,000 gal. were voted. A concrete conduit costing $14,000 will be constructed at Day Brook. Michael Schofield is Supt. of Water Dept. Noted Feb. 12.

Albany, N. Y.—A bond issue of $200,000 for the extension of the water mains has been authorized. Noted June 18.

★Bedford Hills, N. Y.—(Official)—Bids will be received by James Wood, Pres. of the Bd. of Mgrs., New York State Reformatory for Women, until 2 p.m., July 24, for constructing a water system and for improving the sewage disposal plant at the Farm Group Cottages and additions. Plans are on file with Lewis F. Pilcher, Capitol, Albany.

Coxsackie, N. Y.—The citizens contemplate spending $20,000 for the extension of the water system.

★Gilbertsville, N. Y.—(Official)—Bids will be received by Joseph T. Gilbert until 3 p.m., July 15, for constructing an earth dam, diversion channel and pipe lines.

New York, N. Y.—(Official)—Bids will be received by the Commissioner of Water Supply, Gas and Electricity, Municipal Bldg., until 2 p.m., July 13, for laying water mains in

the Borough of the Bronx, for installing dock hydrants and for laying water mains in the Borough of Brooklyn. William Williams is Comr.

†Harrisburg, Penn.—The contract for laying c.-i. water pipe has been awarded by the Department of Public Safety to the JOHNSON CONSTRUCTION CO., at $0.22 per ft. Bids opened June 15. Noted June 11.

Johnstown, Penn.—The Johnstown Water Co. will construct two reservoirs in the near future.

Mahonoy City, Penn.—The Mahonoy City Water Co. will enlarge its Lofty reservoir to double its present capacity.

Morgantown, Penn.—The Morgantown Water Co. recently incorporated, will construct a water system at Morgantown. Stephen H. Mast is one of the incorporators.

†Reading, Penn.—(Official)—The contract for repairing and reconstructing the Antietam Dam has been awarded by Charles Marks to WILLIAM H. DECHANT, Baer Bldg., Reading, at about $16,000. Bids opened July 1. Noted June 25.

Richland, Penn.—Bids will be received by the Borough Council until July 13 for c.i. water pipe, valves, etc. F. H. Shaw, Lancaster, is Consult. Engr.

†Crisfield, Md.—The contract for extending the water system has been awarded by the City Council to CHARLES OWENS, Bridgeville, Md., at $6994. Bids opened June 15. Noted June 11.

Kensington, Md.—Bids will be received until 8 p.m., July 13, for $50,000 water and sewer bonds. H. W. Hatton is Consult. Engr.

Wilmington, N. C.—The citizens contemplate spending $25,000 for the installation of a water system. T. D. Meares is City Clk.

Manchester, Ga.—Press reports state that the City Council contemplates constructing a water works and sewer system.

Dade City, Fla.—Bonds for $20,000 for the construction of a water system were recently voted. Noted June 11.

Perry, Fla.—See item under Sewers.

Seabreeze, Fla.—The citizens contemplate constructing a water system at Seabreeze.

Collinsville, Ala.—The citizens recently voted $16,000 for the installation of a waterworks system.

Jackson, Ala.—The installation of a water system and electric-light plant to cost $15,000 is being considered by the city. C. W. Boyles is Mayor.

Columbia, Tenn.—The Solomon-Norcross Co., Candler Bldg., Atlanta, Ga., has been engaged by the city of Columbia to prepare plans for the construction of a water system.

Lawrenceburg, Ky.—According to press reports the city will build a new pumping station on Salt River for its water system.

Providence, Ky.—The installation of a water system is contemplated by the citizens of Providence.

Winchester, Ky.—The city contemplates constructing a pumping station on the Kentucky River in connection with its water system.

Cincinnati, Ohio—The Service Director has been authorized to lay a 36-in. water main in Spring Grove Ave. near Winton Pl. and in Deerfield Road and Eastern Ave. The estimated cost is $47,000 and $53,000 respectively. Philip Fosdick is Dir.

Clyde, Ohio—Bids will be received by the Clerk, Board of Trustees, Public Affairs, until July 21 for improving the water system.

Dayton, Ohio—A bond issue for about $80,000 for extensions and improvements to the water system has been authorized by the City Commission. Noted Apr. 2.

Toledo, Ohio—(Official)—The W. J. Sherman Co., Nasby Bldg., Toledo, has been retained by the city of Toledo to prepare plans for the construction of a high-pressure system. Noted Dec. 4 and June 11.

Tell City, Ind.—Bids will be received by the City Clerk until July 14 for furnishing new equipment for the city water works. Robert M. Cass, 318 American Central Life Bldg., Indianapolis, is Consult. Engr.

Highland Park, Mich.—Bids will be received by the Village Clerk until July 13 for constructing a 30-in. c.i. supply main from Lake St. to Highland Park.

Wyandotte, Mich.—The citizens have authorized the expenditure of $40,000 for the improvement of the municipal water system.

★Summit, Ill.—(Official)—Bids will be received until 8 p.m., July 23, for installing machinery, constructing a concrete reservoir and pipe for the water system. Plans are on file with J. W. Cook, 237 South La Salle St., Chicago, Ill. is Engr.

Troy, Ill.—The city contemplates installing a water system. F. H. Garnet is City Clk.

Albany, Wis.—Bids will be received by F. E. Graves, Village Clk., until 7:30 p.m., July 15 for furnishing one duplex or triplex pump with a capacity of 200 gal. per minute and a gasoline engine. W. G. Kirchoffer, Madison, Wis., is Engr. Noted Feb. 19.

Muscatine, Iowa—The municipal water system will be enlarged and extended in South Muscatine. William Molis is Supt. of the Water System. Noted Feb. 19.

Rockwell City, Iowa—The Town Council contemplates spending $30,000 for the extension of the water and sewer systems.

†Buhl, Minn.—The contract for sinking a 700 ft. well has been awarded by the Village Council to IVER OLSON, Buhl, at $8400.

Alton, Kan.—(Official)—Bids will be received by F. C. Search, City Clk., until 8 p.m., July 15 for installing a water system and an electric-light plant. The estimated cost is $30,000. Tollins & Co., 420 Midland Bldg., Kansas City, Mo., are the Engrs. Noted June 4.

Arkansas City, Kan.—Bids will be received by Burns & McDonnell, Kansas City, until July 21 for making improvements to the water system. Noted June 18.

Arma, Kan.—The citizens contemplate spending $10,000 for the improvement ond extension of the water system and electric-light plant. H. C. Mahon is City Clk.

Belpre, Kan.—The citizens contemplate installing a water system.

Douglas, Kan.—The city contemplates issuing $15,000 in bonds for the construction of a distribution system. C. A. Ogg is City Clk. Albert C. Moore, Bartlett Bldg., Joplin, Mo., is Engr.

Havelock, Neb.—The City Council has authorized the preparation of plans for the extension of the water system.

Wayne, Neb.—Bonds for the extension of the water system have been voted. J. M. Cherry is Clk.

Choteau, Mont.—Plans have been prepared by Sheringer & McCulloh for the installation of a municipal water system. Noted Feb. 19.

Harlowtown, Mont.—An expenditure of $[illegible],000 for the installation of a water system is contemplated by the City Council.

Kansas City, Mo.—Press reports state that the Board of Fire and Water Commissioners will spend $150,000 for the installation of new pumps at the Turkey Creek pumping station. Burton Lowther is Ch. Engr.

Rockport, Mo.—The city contemplates spending $12,000 for extensions to the water works. John T. Wells is City Clk.

Benton, Ark.—See item under Sewers.

†Alta Loma, Tex.—The contract for drilling two wells has been awarded to LAYNE & BOWLER, Houston, at $13,080. Noted May 21.

†Beaumont, Tex.—Contracts for the construction of a water system were awarded by the city to BRASH & GRAY, Joplin, Mo., for settling basin, at $24,290; and to the AMERICAN CAST-IRON PIPE CO. for pipe, at $5000.

Ennis, Tex.—At an election June 23 bonds for $197,500 were voted for the installation of a water system, street paving, a city hall and a sewer system.

†Fort Bliss, Tex.—The contract for extending the water system has been awarded to MAYFIELD & SHAW at $15,000.

Livingston, Tex.—Plans are being prepared by Brown & Wilder, Houston, for the construction of a water system for Livingston.

Pecos, Tex.—The Pecos & Toyo Lake Irrigation Co. has filed application with the State Board of Water Engineers for the appropriation of water from the Pecos River for the irrigation of 6000 acres of land.

San Benito, Tex.—The City Council has granted a 50-year franchise to S. A. Robertson, trustee, to furnish the town with water, light and telephone service. The franchise will be transferred to a syndicate of Eastern capitalists, which will take over the plant of the San Benito Water Co. It is planned to install new machinery and make other improvements.

Lehigh, Okla.—Bonds for $40,000 for the extension of the water system have been voted.

Denver, Colo.—Bids will be received by the Public Utilities Commission until July 20 for $8,000,000 of bonds for the purchase of the water works. Noted July 18.

Bancroft, Idaho—Bids will be received by the Village Trustees, until July 10, for installing a water system. About two miles of pipe and a reservoir will be required. T. H. Humphreys, Logan, Utah, is Engr. Noted June 18.

Beaver, Utah—At a recent election, bonds for $30,000 for the installation of a municipal water system were voted.

Bingham Canyon, Utah—Bids will be received by the Town Board until 2 p.m., July 22, for furnishing 220 tons of 6- and 8-in. c.i. water pipe and 4000 lb. of special castings. Francis W. Quinn is Town Clk.

Salt Lake City, Utah—The city will build a reservoir on the Fort Douglas military reservation on 5th S. St., near 15th E. St. Sylvester Q. Cannon is City Engr.

Glendale, Ariz.—Bonds for $50,000 for the purchase of the water system have been voted. New machinery will be installed and extensions made at an estimated cost of $25,000.

Seattle, Wash.—Meacham & Babcock submitted the lowest bid to the Board of Public Works for the construction of a water main tunnel under Lake Washington Canal at 7th Ave. N. E. The bid for a concrete lined tunnel was $183,511, and for brick lining, $193,449.

Mollala, Ore.—The City Council has authorized the expenditure of $10,000 for the installation of a water system. Noted Apr. 2.

Eureka, Calif.—The city will buy the Eureka Water Co. and will make improvements. G. A. Strand is City Engr.

Hanford, Calif.—The East Side Irrigation Co. has been organized to construct irrigation canals at an estimated cost of $20,000. J. W. Barbour, Mack Lovelace and S. Richardson, Crocker Bldg., San Francisco, are interested.

Modesto, Calif.—Plans have been prepared by R. A. Edwards, 2080 Green St., San Francisco, for new flumes, fills and canals for the Modesto Irrigation District. The estimated cost is $600,000. Noted Apr. 16.

†Pasadena, Calif.—The contract for constructing a 4,000,000-gal. concrete lined reservoir has been awarded by the William Allin Estate to ROBERT YOUNG, 601 El Centro St., South Pasadena, at $12,800.

Riverbank, Calif.—The Riverbank Water Co. will construct a steel tank with a capacity of 50,000 gal. on a 50-ft. tower. B. W. Hobart is Mgr.

★Montreal, Que.—(Official)—All bids received May 19 for the installing of two 12,000,000-gal. pumps have been re-

jected. The contract will be readvertised and bids received about July 30. L. N. Senecal is Secy. Noted May 7.

✚New Toronto, Ont.—Contracts for furnishing hydrants and valves and a 75,000-gal. steel tank have been awarded to the CANADIAN ALLIS-CHALMERS CO., Torento, at $11,-841 for hydrants and valves, and to the CARGO BRIDGE & IRON CO., Bridgeburg, Ont., at $4450 for the steel tank. Noted June 18.

SEWERS

✚Boston, Mass.—The contract for constructing sewers in Washington, Lesher and South Sts., West Roxbury. District has been awarded to JAMES DRISCOLL & SON CO. at $12,559. Other bids were: M. De Sisto, $13,084; Anthony Baruffaldi, $13,521; Martino De Matteo, $14,140; West Roxbury Trap Rock Co., $14,300; Louis Balboni, $14,998; Antony Cefalo, $15,197; George M. Bryne Co., $16,108; M. H. Kelley, $16,379; McCarthy & Walsh, $16,481; Michael Meehan, $18,854. L. K. Rourke is Comr. of Pub. Wks. Noted June 25.

Fitchburg, Mass.—(Official)—Bids will be received by the Sewage Disposal Commission until 3 p.m., July 14, for constructing lateral connections and about 800 ft. of 72-in. storm sewer. David A. Hartwell is Chief Engr.

Haverhill, Mass.—The city contemplates constructing sewers in Kenoya Ave. to protect the watershed at Kenoya Lake. The estimated cost is $20,000.

✚New Bedford, Mass.—The contract for building and erecting screens, machinery, superstructure and appurtenances for the Clarks cove screen house of the intercepting sewer system has been awarded to the P. F. WOOD BOILER CO., at $6444. Other bids were from the New Bedford Boiler & Machine Co., $7224; New England Structural Co., $10,184.

Warren, R. I.—The City is considering installing a sewer system, at an estimated cost of $50,000.

✚Middletown, Conn.—(Official)—The City Council received bids for constructing the sewerage system in the western portion of the city from A. BRAZOS & SON, Middletown, Conn., $20,196 (awarded contract); Frank Arrigoni & Bro., Middletown, Conn., $22,640; Berardino & Tomassette, Meriden, Conn., $23,542; Pierson Engineering & Contracting Co., Hartford, Conn., $26,075; Young & Hyde, Inc., New York, N. Y., $29,781. Bids for constructing the sewage disposal plant were received from Salvatore Mazzotti, Middletown, Conn., $7001; FRANK ARRIGONI & BRO., Middletown, Conn., $7061 (awarded contract); Suburban Engineering Co., New York, N. Y., $7170; A. Vignola & Co., Harrison, N. Y., $8501; Young & Hyde, Inc., New York, N. Y., $9206; Pierson Engineering & Cantracting Co., Hartford, Conn., $11,376; J. M. Lucey is City Engr. Plans were prepared by Alexander Potter, 50 Church St., New York, N. Y. Noted June 18.

✚West Haven, Conn.—(Official)—The contract for constructing about 35 miles of vitrified pipe sewers from 8-in. to 24-in. in diameter has been awarded to ROBERT DAILEY & F. P. MAHER, New Haven, at $182,754 and the contract for constructing the pumping station and sewage disposal plant to the ATLANTIC CONSTRUCTION CO. & CAULDWELL WINGATE CO., at $40,645. The above figures differ from the unofficial totals as printed in the issue of July 2.

✚West Haven, Conn.—The contract for furnishing the vitrified pipe for the sewage system has been awarded to the JORDAN CO., 39 South Front St., New Haven, Conn. About 185,000 lin.ft. of 8- to 24-in. pipe will be required. Clyde Potts, 30 Church St., New York, N. Y., is Engr. Noted May 5 and 28, June 18, July 2.

✚Albany, N. Y.—(Official)—The contract for constructing the sewage disposal works has been awarded by the Board of Contract and Supply to the RIVERDALE CONTRACTING CO., New York, N. Y., at $284,302 (unofficial total). Other bids were from R. T. Ford Co., Rochester, N. Y., $287,799; Phœnix Construction Co., New York, N. Y., $298,888; Henry C. Ulen, Chicago, Ill., $300,804; Mason, Hilton & Co., Merrill, Ruckgaber Co., New York, N. Y., $331,541. Noted Apr. 30 and June 11.

Bedford Hills, N. Y.—Bids will be received by James Wood, Pres. Bd. of Mgrs., N. Y. State Reformatory for Women, for building additions and alterations to sewerage and sewage disposal plant also for water supply for groups of cottages.

New York, N. Y.—(Official)—Bids will be received by Marcus M. Marks, Pres. of the Borough, until 2 p.m., July 16, for the reconstruction of the sewer in 111th St., between Manhattan and Eighth Aves.

Oneida, N. Y.—Bids will be received by D. J. Covell, City Clk., until 4 p.m., July 21 for constructing a vitrified pipe sewer in Sherman St.

✚Syracuse, N. Y.—The contract for repairing the sewer in Free St. has been awarded by the Board of Contract and Supply to SAMUEL BONN at $11,981.

Jersey City, N. J.—The Board of Commissioners have decided to construct a trunk sewer in the Horseshoe section.

Newark, N. J.—(Official)—Bids will be received by the Passaic Valley Sewerage Commissioners until 2 p.m., for constructing part of Section 27 of the Main Intercepting Sewer, crossing the Passaic River, in compressed air tunnel, from Newark to Harrison, also for constructing Section 14 of the Main Intercepting Sewer. John S. Gibson is Clk. of the Comn.

✚The contract for constructing part of Section 9 of the Main Intercepting sewer in Newark and Belleville, has been awarded by the Passaic Valley Sewerage Commissioners to CAULDWELL - WINGATE CO., New York, N. Y., at $86,-582. Noted June 11 and July 2.

✚Aliquippa, Penn.—The contract for constructing storm sewers has been awarded to S. B. MARKLEY at $9107. I. S. Patton is Borough Secy. Michael Baker, Fort McIntosh National Bank Bldg., Beaver, is Borough Engr.

Haselton, Penn.—Bids will be received by B. E. Youngman, City Engr., until 7 p.m., July 10, for constructing an 18-in. temporary water sewer in Diamond Ave. and Hayes St.

✚Lebanon, Penn.—The contract for constructing the second unit of domestic sewerage has been awarded as follows: For two sections, J. V. FRITCHEY, at $49,026 and $[illegible]-377, respectively; and to BENNETT & RANDALL at $50,[illegible] for the third section. Noted June 4.

Laurel, Md.—The City Council has commissioned Harry Stevens, Washington, D. C., to prepare plans for installing water mains filtration plant and a complete sewage disposal plant. The estimated cost is $65,000.

Petersburg, Va.—The city will construct a 36-in. concrete sewer, estimated to cost $8000. The work will be done by day labor. R. D. Budd is City Engr.

Kinston, N. C.—The City has voted $100,000 in bonds for sewer and other improvements. F. I. Sutton is Mayor. Noted Mar. 27, 1913.

Clearwater, Fla.—The city contemplates the construction of a sanitary sewer, estimated to cost $20,000.

Leesburg, Fla.—The City Contemplates the installation of a sewer system.

Perry, Fla.—The city will construct a sewer system and water works. Plans have been prepared. C. L. Brandon is City Clk.

Memphis, Tenn.—Bids were received by the Board of City Commissioners for constructing the storm sewer on Keel Ave. from F. D. Harvey & Co., $8191; Koehler Bros. & Fowler Construction Co., $8333; Noll Construction Co., $6504; George O. White & Co., $7398; Pouncey Paving & Construction Co., $11,173.

Paducah, Ky.—The Aetna Engineering Co., Chicago, Ill., is preparing plans for a trunk sewer system. Bids will be received about Aug. 1. L. A. Washington is City Engr.

✚Akron, Ohio—It is reported that the contract for building a portion of the work on the sewage disposal plant has been awarded to DUQUESNE CONSTRUCTION CO., Pittsburgh, Penn. The following are the item bids: Removing earth excavation at $50,400; rock excavation, $5000; rolled embankment, $3800; parking, $3000 and macadam roadways $8800. Noted July 2.

Amherst, Ohio—Bids will be received by C. G. Aschenbach, Village Clk., until noon, July 23, for 3400 ft. of sanitary sewers in Wells, East, North and South Hazel Sts.

Cleveland, Ohio—Bids will be received by A. R. Callow, Comr. of Purchases and Supplies, until noon, July 16, for constructing a sewer in Eastern Boulevard.

✚Sandusky, Ohio—The contract for constructing the South End sewer system has been awarded to J. C. CARLAND & CO., Toledo, Ohio, at $68,586.

✚Steubenville, Ohio—The contract for constructing a sewer in Spring Ave. has been awarded to Harry M. Bates, Steubenville, at $7072. T. M. Kennedy is Clk.

Westerville, Ohio—Bids will be received by the Village Council, until noon, July 17, for extending and improving the sanitary sewer system. R. D. Bennett is Village Clk.

Greencastle, Ind.—The city will construct a sewer system, estimated to cost $80,000. Vitrified pipe 8- to 18-in. will be used. Alec Lane is City Engr.

New Albany, Ind.—The city contemplates constructing a trunk sewer.

✚Grand Rapids, Mich.—The contract for constructing the Madison Ave. sewer has been awarded to RICHARD PICKETT, at $5495.

Traverse City, Mich.—The city plans to construct sewers and a disposal works. Bonds for $90,000 have been voted.

Berwyn, Ill.—Bids will be received by the Board of Local Improvements until 8 p.m., July 21, for constructing a sewer in 16th St. Plans are on file with Arthur R. Wolfe, 39 South La Salle St., Chicago, Ill. Oscar N. Lindahl is Secy. of the Bd.

Chicago Heights, Ill.—(Official)—Bids will be received by the Board of Local Improvements until 8 p.m., July 11, for installing a sanitary sewer system. The contract calls for 4378 ft. of 24-in. double strength tile pipe sewer; 1325.6 ft. of 20-in. double strength tile pipe sewer; 1322 ft. of 18-in. double strength tile pipe sewer; 6837.8 ft. of 12.in. standard strength tile pipe sewer; 663 ft. of 10-in. tile pipe sewer; 48,413.6 ft. of 8-in. tile pipe sewer; 37,884 ft. of 6-in. tile pipe sewer; 60 ft. of 24-in. c.-i. sewer; 312 plain manholes, complete with frames, covers and steps; 32 drop manholes, complete with frames, covers, steps and drop connections; and 46 flush manholes; complete with frames, covers, steps and flushing connections. The total estimate is $103,119. M. H. McCoy is Engr.

Farmer City, Ill.—A petition has been filed with E. F. Campbell, County Clk., for a sewer system in the eastern section of the city. The estimated cost of the improvement is $421,597.

✚Freeport, Ill.—The contract for constructing a storm sewer system and laying brick pavement has been awarded to the GUND GRAHAM CO., Freeport, at $36,403.

Geneva, Ill.—Bids will be received by the Board of Local Improvements until 7 p.m., July 18, for constructing sanitary sewers. The W. S. Shields Co., Hartford Bldg., Chicago, is Engr.

Springfield, Ill.—Bids will be received by John S. Schnepp, Mayor, for constructing a 5-ft. single ring brick sewer, estimated to cost $14,000. W. D. Seeley is City Engr.

Elkhorn, Wis.—(Official)—Bids will be received by the City Clerk until 7:30 p.m., July 10, for constructing 1392 ft. of 15-in., 642 ft. of 12-in.; 7495 ft. of 10-in.; 19,297 ft. 8-in. vitrified pipe sewers; 53 manholes; three flush tanks; one Imhoff tank and two filter beds. Plans are on file with the City Clerk and W. G. Kirchoffer, Madison, Wis.

✚**Aledo, Iowa**—It is reported that the contract for constructing sewers has been awarded to DALTON BROS., Wilmette, Ill., at $5316.

Clarion, Iowa—Bids will b received by F. W. Walker, City Clk., until July 21, for constructing a sewer system.

Keota, Iowa—Plans are being prepared by the Iowa Engineering Co., 123 Sixth Ave., Clinton, for constructing a sewer estimated to cost $30,000.

Rockwell City, Iowa—See item under "Water Supply and Irrigation."

Wapello, Iowa—Bids will be received by the City Recorder until July 9, for constructing either vitrified brick or concrete pipe sewer, Sub-Sewage District, No. 3. The Central States Engineering Co., Muscatine, is Engr.

Waterloo, Iowa—Bids will be received by the City until 7:30 p.m., July 13, for constructing 8-, 10-, 12-, 15- and 30-in. sewers, also a pump house. C. A. Roby is City Engr.

Staples, Minn.—Bids will be received by the City Clerk until July 14, for constructing a sewage disposal plant.

Carthage, Mo.—Bids will be received by the City Council until 5 p.m., July 28, for constructing a trunk sewer, estimated to cost $25,000. James B. Lloyd is City Clk.

Benton, Ark.—Press reports state that bids will be received about Nov. 1, for constructing sewer and water works systems, estimated to cost $60,000. E. A. Kingsley, Little Rock, Ark., is Engr.

Dallas, Tex.—The City will construct a 12-, 15- and 18-in. sanitary sewer in Fitzhugh Ave. R. R. Nelms is City Water and Sewer Comr.

Eagle Pass, Tex.—The City Council contemplate the installation of a sewer system.

Ennis, Tex.—The City has voted $30,000 in bonds for constructing a sewer system. W. D. Farris is Mayor.

✚**San Antonio, Tex.**—The following contracts have been awarded by the City Council; for sewers in Seventh Ward, TRUEHART & JACKSON, $13,070; Peach St. District, BAILEY & REEDER, $16,003 Degnowity Hill District, SAN ANTONIO ENGINEERING & CONSTRUCTION CO., $5432. Noted June 4.

Palouse, Wash.—Bids will be received by the City Clerk, until July 14, for constructing a sewer system in Local Improvement District No. 2. J. M. McCaw is City Engr.

✚**Seattle, Wash.**—The contract for constructing a sewer in East 56th St. has been awarded by the Board of Public Works to A. M. FIORITO at $7545. Noted June 11.

✚**Portland, Ore.**—The contract for constructing a vitrified pipe sewer in Rhine St. has been awarded to WILLIAM LIND at $108,599.

Azar & Co. at $7679 submitted the lowest bid for constructing a sewer in East 55th and East Oak St. Noted June 25.

Long Beach, Calif.—Bids will be received by the Board of Public Works until noon, July 22, for constructing a complete sewer system. Bonds for $340,000 have been voted. Noted June 11, and June 25.

Los Angeles, Calif.—Bids will be received by the Board of Public Works until July 13, for constructing a brick and monolithic concrete storm sewer in Santa Monica Boulevard Madison Ave. and in 15 other streets. Homer Hamlin is City Engr.

Stege, Calif.—It is reported that the city has sold $75,000 bonds for installing a sewer system.

Vancouver, B. C.—It is reported that bids will be received by the Joint Sewage Commission, Greater Vancouver, until July 18, for installing lateral sewers to connect with trunk mains, now installed. The estimated cost is $300,000.

STREETS AND ROADS

✚**Augusta, Maine**—Contracts for highway construction work have been awarded as follows: R. G. MILLER, Hartford, Conn., $30,440 for 5.61 miles, at Norridgewack; FORGIONE & ROMANO, South Portland, $18,085 and $19,284 for 3.64 miles at Farmington and 3.41 miles at Strong, respectively; WISEMAN & McPHAIL, Smyrna Mills, $30,533 for 9.23 miles at Whiting; C. M. THOMPSON, Kingman $9995 for 1.59 miles at Newport, and J. G. FLEMING, Lincoln, $16,107 for 2.70 miles at Etna.

Concord, N. H.—Bids will be received by S. Percy Hooker, State Supt. of Highways, until 1 p.m., July 13, for improving parts of roads in Petersborough, Auburn, Amherst, Winchester, Derry, Madison and Merrimack Townships.

Boston, Mass.—Bids will be received until July 13 for bituminous macadam roadway on Denton Terrace and St. Rose St., West Roxbury District. L. K. Rourke is Comr.

✚**Holyoke, Mass.**—A contract for laying roman road pavement on Northampton and Dwight Sts. has been awarded to DANIEL O'CONNELL'S SONS at $1.45 per sq.yd.

Woburn, Mass.—The City Council has appropriated $20,500 for macadam work on Main, Washington, Pine and Green Sts. W. Henchey is Mayor.

Hartford, Conn.—Bids for state road work were received by the State Highway Commission, June 30, as follows:

Brooklyn Township, 4850 lin.ft. native stone macadam construction on the Wauregan Road: Frank Arrigoni & Bro., Middletown, $9472; Ahern Construction Co., Willimantic, $9458; Goodman & Trumbull Co., Litchfield, $8448; John deMichiel & Bro., Torrington, $9069.

Manchester Township, about 3425 lin.ft. plain concrete (a) or reinforced concrete (b) on Chapman Road: Piersen Engineering & Contracting Co., Hartford, (a) $13,228, (b) $14,041; Goodman & Trumbull Co., Litchfield, (a) $18,031, (b) $18,640; Connecticut Hassam Paving Co., New Haven, (a) $11,559; Bristow Bros. & Knowles Corporation, Narranganseett Pier, R. I., (a) $12,035, (b) $12,170; Olmstead & Olmstead, East Hartford, (a) $16,090, (b) $16,619; A. C. Sternberg Jr. Contracting Co., West Hartford, (a) $11,865, (b) $12,611.

Westborok Township, about 3365 lin.ft. native stone macadam (a) or native resurfacing (b) on the Essex Road: Kellogg & Gregory Co., Danbury, (a) $9168, (b) $5971; John deMichiel & Bro., Torrington, (a) $8094, (b) $5482; Leonardo Suzio, Meriden, (a) $9259, (b) $6013; Robert G. Miller Contracting Co., Hartford, (a) $9004, (b) $6214; Piersen Engineering & Contracting Co., Hartford, (a) $10,502, (b) $7318; Godman & Trumbull Co., Litchfield, (a) $9011, (b) $6242; Bristow Bros. & Knowles Corporation, Narragansett Pier, R. I., (a) $8929, (b) $6714; A. Brozos & Sons, Middletown, (a) $9781, (b) $6898; Frank Arrigoni & Bro., (a) $8992, (b) $5246; Olin T. Benedict, Pittsfield, Mass., (a) $8815, (b) $5991; John Arborio, New Haven, (a) $8601, (b) $5685.

Salisbury Township, about 4040 lin.ft. graded construction on Smith Hill: E. B. Alfred, New Hartford, $4246; B. D. Pierce Jr. Co., Bridgeport, $4773; Beacco & Co., Stockbridge, Mass., $5101; Curran Corporation, Middletown, $4450; Cæsar A. Rossi, Torrington, $3765; Porcaro Construction Co., Willimantic, $4513; Joseph Mascetti, Torrington, $4220; Kellogg & Gregory Co., Danbury, $4490; John deMichiel & Bro., Torrington, $3307.

Putnam Township, about 6307 lin.ft. native stone bituminous macadam (a) or trap rock bituminous macadam (b) on Woodstock Ave.: A. Vito Construction Corporation, Thompson, (a) $13,492, (b) $16,727; A. D. Bridge's Sons, Inc., Hazardville, (a) $13,916, (b) $13,351; Frank Arrigoni & Bro., Middletown, (a) $17,509, (b) $19,180; Oscar W. Rackle, Providence, R. I., (a) $14,001, (b) $18,234; Piersen Engineering & Contracting Co., Hartford, (a) $14,934, (b) $16,048; Goodman & Trumbull Co., Torrington, (a) $14,360, (b) $16,031.

Essex Township, about 12,000 lin.ft. trap rock (a) or native stone (b) resurfacing on the Westbrook Road: Olin T. Benedict, Pittsfield, Mass., (a) $5810, (b) $4710; Piersen Engineering & Contracting Co., Hartford, (a) $6930; Curran Corporation, Middletown, (a) $4779, (b) $4569; A. Brazos & Sons, Middletown, (a) $5289, (b) $3710; Frank Arrigoni & Bro., Middletown, (a) $7126, (b) $3585; Goodman & Trumbull Co., Litchfield, (a) $5390, (b) $4010; Bristow Bros. & Knowles Corporation Narragansett Pier, R. I., (a) $5510, (b) $4990; Robert G. Miller Contracting Co., Hartford, (a) $6930, (b) $3960; John deMichiel & Bro., Torrington, (a) $5138, (b) $4210; Kellogg & Gregory Co., Danbury, (a) $5165, (b) $3625; Leonardo Suzio, Meriden, (a) $6373, (b) $4739.

Hartford City, about 4035 lin.ft. amiegite (a), warrenite (b), bituminous concrete (c), plain concrete (d) or reinforced concrete (e) on Albany Ave.: Southern New England Contracting Co. Hartford, (c) $11,834; Edward Balf Co., Hartford, (c) $11,619; Warren Bro. Co. Boston, Mass., (b) $13,206; Connecticut Hassam Paving Co., New Haven, $10,243; Piersen Engineering & Contracting Co., Hartford, (d) $12945, (e) $13,732; A. D. Bridge's Sons, Inc., Hazardville, (c) $13,733; A. C. Sternberg Jr. Construction Co., West Hartford, (d) $10,671, (e) $11,538; Connecticut Good Roads & Construction Co., New Britain, (d) $16,074, (e) $17,035; Connecticut & Rhode Island Co., Meriden, (a) $10,788.

Watertown Township, about 6450 lin.ft. trap rock macadam **(a)**, native stone macadam (b) or gravel (c) construction on the Thomaston Road: John deMichiel & Bro., Torrington, (a) $12,810, (b) $12,766, (c) $9255; Olin T. Benedict, Pittsfield, (a) $13,327, (b) $14,764, (c) $12,281; Connecticut Good Roads & Construction Co., New Britain, (c) $10,540; B. D. Pierce Jr. Co., Bridgeport, (b) $14,453, (c) $11,564; Louis Loughi & Bro., Torrington, (a) $14,426, (b) $15,290, (c) $10,436; Edward B. Reilly, Waterbury, (a) $17,623, (b) $18,453, (c) $13,980; Piersen Engineering & Contracting Co., Hartford, (a) $15,359, (b) $16,511; Cæsar A. Rossi, Torrington, (a) $14,928, (b) $14,063, (c) $10,536; Goodman & Trumbull Co., Litchfield, (a) $15,754, (b) $15,411; Kellogg & Gregory Co., Danbury, (a) $15,197, (c) $12,423. Noted Jun. 25.

New Haven, Conn.—Bids are being received by Frederick L. Ford, City Engr., for paving sections of Church St. and Winchester Ave. with creosoted wood blocks.

★**Albany, N. Y.**—Bids were received by the State Highway Commission, 55 Lancaster St., July 6, for the construction of public highways by state aid as follows:

Road No. 1198, Albany-Glenmont, Albany County, 1.25 miles: Joseph Walker Construction Co., Albany, $26,795; William P. McDonald Construction Co., New York, $23,526; Robert I. Gleason, Albany, $26,764; P. Camillo & Co., Schenectady, $26,486; Olin T. Benedict, Pittsfield, Mass., $28,464; Roger B. Kennedy, Albany, $27,822.

Road No. 5499, Albany-Bethlehem Center, Albany County, 4.36 miles: Joseph Walker Construction Co., Albany, $34,583; William P. McDonald Construction Co., New York, $33,402; Richard Hopkins Co., Troy, $35,389; Olin T. Benedict, Pittsfield, Mass., $35,881.

Road No. 1199, Cohoes City, Vliet Ave., Albany County, 1.03 miles: Ballard & Maher, Oneida, $31,479; John W. Flynn, Waterford, $31,111; Robert I. Gleason Albany, $31,846; Parker-Hassam Paving Co., Worcester, Mass., $31,888.

Road No. 5502, Andover-Alfred Station-Almond, Allegany County, 12.06 miles: John Johnson Construction Co., Buffalo, $154,380; Woods Construction Co., Syracuse, $145,170; Maguire & Fahey, Hornell, $145,734; Cold Spring Construction Co., Buffalo, $152,785; Swank & McIntyre, Hornell, $151,504; Frank J Foote, Nunda, $141,300; I. M. Ludington & Sons, Inc., Rochester, $149,384, and two others.

Road No. 5475, Plattsburgh City—Peru and Charlotte Sts., Clinton County, 0.30 mile: Hilleem Construction Co. Plattsburgh, $21,121; James Conway, Plattsburgh, $21,111; Boynton & McNally, Keeseville, $18,833; Gifford Construction Co., Jamaica, $17,726.

Road No. 5489, Poughkeepsie City—South Ave. and Washington St., Dutchess County, 0.73 mile: Joseph Johnson & Sons, West New Brighton, $52,949; Bridgeport Construction Co., Poughkeepsie, $51,436; Samuel Beskin Co., Inc., Beacon, $51,075; Abner M. Harper, Newburgh, $51,645; Gruner & Hallenbeck, Harriman, $54,252; John I. McDonald Contracting Co., Mt. Vernon, $50,942; James Carafano & Sons, Mt. Vernon, $52,835, and one other.

Road No. 1197, Carthage-Naumburg, Part 1, Jefferson County, 1.81 miles: Dana W. Robbins, Inc., New York, $20,022; B. F. S. Co., Herkimer, $19,816; Thomas O'Brien, Watertown, $20,984; Joseph Mascetti, Torrington, Conn., $19,876; Valley Construction Co., Sidney, $20,487.

Road No. 1203, Baldwin-Oceanside, Nassau County, 1.56 miles: Evergreen Construction Co., Long Island City, $20,190; Frank Arrigonni & Bro., Middletown, Conn., $20,998; John De Michael & Bro., Torrington, Conn., $19,896; Gifford Construction Co., Jamaica, $20,432; E. H. Brown, Hempstead,

$21,139; H. J. Mullen Contracting Co., Jamaica, $21,453; Clarey & Van Alst, Long Island City, $22,767, and three others.

Road No. 1202, Plainview-Massapequa Turnpike, Nassau County, 4.41 miles: Frank Arrigoni & Bro., Middletown, Conn., $52,759; W. J. Leahy, New York, $51,829; Parker-Hassam Paving Co., Worcester, Mass., $47,362; Gifford Construction Co., Jamaica, $50,632; John De Michael & Bro., Torrington, Conn., $49,236; John J. Hart, Peekskill, $51,143; E. H. Brown, Hempstead, $50,644, and four others.

Road No. 5473, Geneva City—Hamilton St., Ontario County, 1.30 miles: Clarence-Aidkenhead Co., Inc., Rochester, $59,513; Ropton-Murphy Co., Rochester, $61,851; Brooks & Julian, Rochester, $60,998; Morrison & Quinn, Rochester, $61,447; J. W. Brennan Construction Co., Geneva, $60,006; Robert W. Henson, Geneva, $61,943; John Johnson Construction Co., Buffalo, $61,890, and four others.

Road No. 1104, Colleton-Wayland, Part 1, Steuben County, 4.09 miles: Holleran Bros., Elmira, $53,930; Frank J. Foote, Nunda, $53,286; Bradley & Nolan, Corning, $51,412; Ribstine-Holter Co., Inc., Rochester, $52,902; Joseph Wager, Buffalo, $53,738; Chambers & Barnes, Rochester, $54,757; McGuire & Fahey, Hornell, $51,108.

Road No. 5495, Bath-Hammondsport, Part 2, Steuben County, 3.48 miles: Holleran Bros., Elmira, $38,629; J. W. Brennan Construction Co., Geneva, $38,979; Brooks & Julian, Rochester, $39,644; Patrick Murray & Son, Elmira, $37,637; McLaughlin & Burchill, Syracuse, $37,639; Ribstine-Holter Co., Rochester, $40,681; Chambers & Barnes, Rochester, $39,856, and two others.

Road No. 5334-A, Watkins-Yates County Line, Schuyler and Yates Counties, 7.85 miles: Schunnemunk Construction Co., Highland Mills, $97,225; J. W. Brennan Construction Co., Geneva, $92,953; John W. Gurnett, Watkins, $89,396; John I. McDonald Construction Co., Mt Vernon, $91,144; Woods Construction Co., Syracuse, $92,068; Peter F. Connelly Co., Waverly, $94,863; Semper Bros., Watertown, $94,351, and four others.

Road No. 5451, Williamson-Sodus, Wayne County, 5.94 miles: Guy B. Dickison, Syracuse, $67,363; Frank V. Brotsch Co., Rochester, $68,180; E. H. Brown, Hempstead, $65,717; Whitmore-Rauber-Vicinius, Rochester, $67,228; Greece Construction Co., Rochester, $67,910; Chambers & Barnes, Rochester, $63,501; I. M. Ludington & Sons, Inc., Rochester, $67,369, and five others.

Road No. 5449, Ontario Center-Williamson, Part 2, Wayne County, 2.28 miles: I. M. Ludington & Sons, Rochester, $26,595; Guy B. Dickison, Syracuse, $26,296; John Johnson Construction Co., Buffalo, $26,067; E. H. Brown, Hempstead, $24,870; Greece Construction Co., Rochester, $25,583; Whitmore-Rauber-Vicinius, Rochester, $25,384; Frank V. Brotsch Co., Rochester, $25,781, and five others.

Road No. 5482, Ossining Village, Westchester County, 2.17 miles: John J. Hart, Peekskill, $107,607; William P. McDonald Construction Co., New York, $106,317; Brice & Tripp, White Plains, $104,347; Samuel Heskin, Beacon, $104,777; Bridgeport Construction Co., Poughkeepsie, $103,992; William F. McCabe Construction Co., White Plains, $104,789; Joseph Johnson Construction Co., West New Brighton, $103,243, and one other.

The following bids were received by the State Commission of Highways, July 6, for the repair of public highways by state aid:

Repair Contract No. 594, Columbia County: Richard Hopkins, Troy, $3638; James Garalano & Son, Mt. Vernon, $3811; D. E. Lynch, Rhinebeck, $3719; Gruner & Hallenbeck, Harriman, $4151.

Repair Contract No. 672, Dutchess County: Thomas J. Martin, Beacon, $12,981; James P. Donohue, New York, $12,-.50; Gruner & Hallenbeck, Harriman, $12,855; William Doyle, Saugerties, $12,85-; Olin T. Benedict, Pittsfield, Mass., $12,576; Richard Hopkins, Troy, $14,465; James Garafano & Son, Inc., Mt. Vernon, $12,282, and one other.

Repair Contract No. 648, Livingston County: McCarthy & Wall, Mt. Morris, $6020; Morrison & Quinn, Rochester, $6204; Brooks & Julian, Rochester, $5883; Schroeder-Hicks Contracting Co., Rochester, $6507; Patrick Murray & Son, Elmira, $6746; Dale Engineering Co., Utica, $5753; Ribstine-Holter, Rochester, $6204.

Repair Contract No. 613, Onondaga County: Phelan & Sullivan, Utica, $7518; Guy B. Dickison, Syracuse, $7815; J. H. Weidman, Syracuse, $8780.

Repair Contract No. 674, Orange County: James L. Kehoe, Newburgh, $5805; James P. Donohue, New York, $6362; Schunnemunk Construction Co., Highland Mills, $5607; D. E. Lynch, Rhinebeck, $6033; Gruner & Hallenbeck, Harriman, $6143; James Garafano & Son, Mt. Vernon, $6375.

Repair Contract No. 675, Oneida County: Nash & Griffin, Norwich, $2131; Harry W. Roberts & Co., Utica, $2101.

Repair Contract No. 673, Putnam County: E. T. Eggleston, Yonkers, $8306; John F. Donovan, Saugerties, $8373; William P. McDonald Construction Co., New York, $8128; James P. Donohue, New York, $8096; James Garafano & Son, Inc., Mt. Vernon, $8111. Noted June 25.

Ithaca, N. Y.—Bids will be received by Board of Public Works, until July 15, for paving Thurston Ave. from Upper Fall Creek Bridge to Wyckoff Ave. with either brick or concrete.

New York, N. Y.—(Official)—(Borough of Manhattan)—Bids will be received by Marcus M. Marks, Pres, of the Borough of Manhattan, Room 2032 Municipal Bldg., until 2 p.m., July 16, for improving 37th, 177th, 23d and Center Sts. and Amsterdam Ave. from 72d to 78th Sts. and from 86th to 90th Sts.

(Official)—(Borough of the Bronx)—Bids will be received by Douglas Matthewson, Pres. of the Borough of the Bronx, 177th St. and Third Ave., until 10:30 a.m., July 16, for improving Davidson, Cruger Aves., East 151st, East 181st Sts. and St. Raymond Ave.

(Official)—(Borough of Brooklyn)—Bids will be received by the Park Board, Municipal Bldg., until 3 p.m., July 16, for improving Eastern Parkway. Cabot Ward is Pres.

(Official)—(Borough of Richmond)—Bids will be received by Charles J. McCormack, Pres. of the Borough of Richmond, until noon, July 14, for improving Hamilton and Vanderbilt Aves.

✚Yonkers, N. Y.—Contracts have been awarded by the Board of Contract and Supply to the KEARNS & HART CONSTRUCTION CO., at $53,329, for paving Buena Vista Ave. and Riverdale Ave. with sheet asphalt and small block, and to MICHAEL NOLAN, at $21,637, for paving Ashburton Ave. with macadam.

✚Hackensack, N. J.—The contract for improving the Paterson Plank Road has been awarded to E. C. HUMPHREY.

✚Jersey City, N. J.—The Board of City Commissioners has awarded the following paving contracts: Passaic Ave. LESTER FELLOWS CO.; Belmont Ave., UVALDE ASPHALT CO.; repairs to asphalt paved streets, CLINTON CONTRACTING CO.; Brown Place, UVALDE ASPHALT CO.

✚Newark, N. J.—(Official)—The contract for resurfacing the Pomton Turnpike, from Bloomfield Ave. to the Passaic County line, has been awarded to the STANDARD BITULITHIC CO., 50 Church St., New York, N. Y., at $93,80[illegible]. Other bids were: Union Building & Construction Co., $95,00[illegible]; Francisco Bros., $96,932; Newark Paving Co., $95,238; Osborne & Marsellis Co., $98,130. Noted June 25.

✚South Orange, N. J.—The Board of Trustees has awarded the contract for the improvement of Grove Road and Grove Terrace to LEPRE & MEGLIARA at $11,986 and $4412, respectively.

Woodlynne, N. J. (Camden Post Office)—The Borough Council contemplates paving and repaving a number of streets.

✚Carrick, Penn.—(Pittsburgh Post Office)—The contract for grading, curbing and paving the Parkway has been awarded to the THOS. CRONIN CO. at $10,410.

Deemston, Penn.—(Beallsville Post Office)—Bids will be received by the Council until 8 p.m., July 25, for completing the L. E. Buckingham and Fredericktown Roads. F. L. Hastings is Pres.

Dormont, Penn.—(Official)—Bids will be received by the Borough Council until 8 p.m., July 10, for improving Ocean Ave. from a Salle to Ordinance Ave.

Edgewood, Penn.—Bids will be received by the Borough, Municipal Bldg., Swissdale Ave. until 5 p.m., July 10, for constructing 5000 sq.yd. of concrete sidewalk.

Greensburg, Penn.—Bids will be received by John S. Sell until noon, July 24, for improving the Salina-Avonmore County Road in Bell Township.

Lebanon, Penn.—(Official)—Bids will be received by the Mayor and Council until 5 p.m., July 23, for paving Cumberland St. from Ninth to Fifth St. and Eighth St. from Chestnut St. to the P and R. R.R.

McKeesport, Penn.—The City Engineering Department is preparing plans for the improvement of Sylvan, Queen, Ash and Willow Sts.

Newport, Penn.—Bids will be received by the Board of Commissioners until 7:30 p.m., July 23, for improving certain streets. W. O. Davis is Secy.

Pittsburgh, Penn.—Bids will be received by the County Comptroller until July 22 for improving various roads and highways in Alleghany County. E. M. Bigelow is State Highway Comr.

✚Pottsville, Penn.—(Official)—Bids will be received by the City Council until 7:30 p.m., July 22, for grading, curbing, paving and improving Market and Logan Sts. For particulars see advertisement under "Contracts To Be Let."

✚Baltimore, Md.—Contracts have been awarded by the State Roads Commissioners, 601 Garrett Bldg., Baltimore, for the construction of road in Caroline County, from Goldsboro to Greensboro, 3.86 miles of 14-ft. macadam, at $39,098, to the JUNIATA PAVING CO., Philadelphia, Penn., Northeast along Old Post Road, 5.09 miles of macadam, in Cecil County, at $54,415 to H. B. SPOUL CONTRACTING CO., Peekskill, N. Y. Belair Road from Kingsville to Hartford County line, 2.10 miles of macadam, $27,972 to LUCK CONSTRUCTION CO., Roanoke, Va.; Queen Ann's County Line, to Goldsborough, in Caroline County, 4.94 miles concrete construction, to HOLT CONSTRUCTION CO., Denton, $59,011; Harvey's to Alleghany County Line, in Washington County, 3.66 miles of macadam, to I. G. ROBINSON, Hancock, $40,002; Frederick to Jefferson, Frederick County, 7.75 miles of 14-ft. macadam resurfacing, to M. J. GROVE LIME CO., Limekin, at $50,345. One mile through Gaithersburg, in Montgomery County, to C. H. Hoyt, Washington, D. C., at $9437.70.

✚Greensboro, N. C.—A contract for paving 6000 to 8000 sq.yd. has been awarded to the LAWRENCE BUILDING CO., High Point at $1.60 per sq.yd.

Arcadia, Fla.—See item under Bridges.

Fernandina, Fla.—Bids will soon be received by the County Commissioners for completing unfinished portions of the Fernandina-Jacksonville Highway. J. W. Keen in Chn.

Athens, Ala.—Bids will be received until July 27 for improving the Decatur-Athens Road. W. S. Keller is State Highway Engr.

Birmingham, Ala.—The city contemplates paving North 25th St. from 12th to 17th Ave., at an estimated cost of $22,000. Julian Kendrick is City Engr.

Bids will be received until 3 p.m., July 14, for grading, macadamizing, curbing, gutters and sidewalks on Pike Ave. from Byrne St. to the street railroad. The estimated cost is $5000. Julian Kendrick is City Enr.

Savannah, Tenn.—An election will be held Aug. 6 to vote on the proposition to issue $240,000 of bonds for road construction.

✚Lexington, Ky.—A contract for paving Roselane, East Second, West Second, North Asland and East Fourth Sts. has been awarded to the CAREY REED CONSTRUCTION CO. Noted Jun. 4.

Akron, Ohio—See item under Sewers.

La Rue, Ohio—Bids will be received by J. W. Campbell, Village Clk. until July 29 for paving High, School, Front and Vine Sts. with asphalt block. The estimated cost of the work is $32,000.

Lorain, Ohio—Bids will be received by County Commissioners until 1 p.m., July 23, for grading, draining and macadamizing North Ridge Amherst Road. F. L. Ellenberger is Clk.

Marion, Ohio—Bids will be received by County Commissioners until noon July 1 for resurfacing the Morral-Brush Ridge Pike Road. V. Perle Garfield is Clk.

New Lexington, Ohio—(Official)—Bids will be received by T. B. Skinner, Village Clk. until noon, July 27, for improving Maple Heights St. from Mill to First St.

+Nova, Ohio—(Official)—The contract for improving 4¾ miles of bituminous bound macadam road has been awarded to E. F. DOWNS & CO., at $38,081. Noted June 25.

+Portsmouth, Ohio—(Official)—The contract for paving 15th St. with brick has been awarded to KELLEY BROS. at $9814. The contract for paving Gallia St. was not awarded. Noted June 18.

+Sandusky, Ohio—The contract for paving Adams, Meigs, Wayne and Van Buren Sts. has been awarded to the ANDREWS ASPHALT CO., Hamilton, at $51,677.

Springfield, Ohio—It has been recommended to award the contract for improving Ludlow Ave. from High St. to Sheridan Ave. to M. J. Hannon at $19,006.

+Tiffin, Ohio—The City Council has awarded the following paving contracts: Minerva St., to the ASPHALT BLOCK & PAVING CO., Toledo at $13,435; Schonhardt, Scott and Jackson Sts. to JOHN KING at $7122, $3029 and $6982 respectively. Noted June 11.

+Youngstown, Ohio—The contract for paving Ryatt St. has been awarded to CHARLES HARRIS at $5314.

Connellsville, Ind.—(Official)—Bids will be received by M. A. Starr, Treas. of Fayette County until 2 p.m., July 21, for the sale of $17,160 of highway improvement bonds.

Indianapolis, Ind.—(Official)—Bids will be received by the Board of Park Commissioners until 10 a.m., July 17 for constructing concrete sidewalks on Maple Road Blvd.

Ontonagon, Mich.—Bonds for $9800 have been sold the proceeds of which will be used for the improvement of highways in Ontonagon County.

+Bloomington, Ill.—The contract for paving University Ave. between Main and Clinton Sts. has been awarded to I. D. LAINN at $15,019.

+Edwardsville, Ill.—The contract for constructing the Alton Road has been awarded to ALBERT J. FAHRIG at $9050. Other bids were: John Adams $11,600; Parham Construction Co. $10,050; Robert Hyten, $13,500 and Dunn-Dippold Construction Co., $10,520.

Elgin, Ill.—(Official)—Bids will be received by the city of Elgin until 10 a.m., July 14, for the construction of 7846 sq.yd. asphaltic concrete pavement on Hill Ave. and 6436 sq.yd. asphaltic concrete pavement on Addison St.

+Evanston, Ill.—The contract for paving Ingleside Place has been awarded to M. FOLEY CO., at $6891.

Freeport, Ill.—See item under Sewers.

Metamora, Ill.—Henry Beasley, Engr., Peoria is preparing plans for the paving of the public square with pproximately 9500 sq.yd. of brick. The estimated cost is $17,000.

Springfield, Ill.—(Official)—Bibs will be received by the State Highway Commission until noon July 15 for State Aid work in Cass, Menard, Crawford and Kane Counties.

(Official)—Bids will be received at the office of the Illinois Highway Commission Springfield until noon, July 22, for the following proposed State Aid work. All concrete to be furnished by the State. Cook County, Route 38, Section B, 7111 lin.ft.; Cook County, Route 32, Section A, 2623 lin.ft.; Cook County, Route 3, Section C, 24,000 lin.ft.; Cook County, Route 29, Section E, 19,442 lin.ft.; Woodford County, Route 1, Section A, 7300 lin.ft.; Iroquois County, Route 7, Section B, 13,306 lin.ft.; Clark County, Route 1, Section A, 4506 lin.ft.; Franklin County, Routes 1A and 1, Section A, 4378 lin.ft.; Schuyler County, Route 5, Section A, 5400 lin.ft.; Bond County, Route 7, Section A, 1575 lin.ft.; Vermilion County, Route 2, Section A, 16,100 lin. ft.

Wateska, Ill.—The Iroquois County Commissioners contemplate building a six-mile concrete road out of this city. The estimated cost is $9000 per mile.

Waukegan, Ill.—Bids will be received by the Board of Local Improvements until 8 p.m., July 13 for 10,830 sq.yd. of asphaltic concrete paving on 5 in. concrete base and 6000 ft. combined curb and gutter. M. J. Douthitt is City Engr. Noted Feb. 26.

Clintonville, Wis.—Bids will be received by the City Clerk until July 20 for paving New London St. with either concrete or asphalt.

Madison, Wis.—The Board of Public Works will receive bids until July 16 for paving and improving Jefferson, Gilman, Henry Sts. and Van Hise and Atwood Aves. O. S. Norsman is City Clk.

Reedsburg, Wis.—Bids are being received by G. F. Post, County Highway Cmr, Baraboo, Wis., for improving two miles of road at Hilbersleben and one mile on Gifford Hill.

+Marshalltown, Iowa—The contract for grading North Third Ave. has been awarded to J. H. C. WILLIAMS & SON, Florence, at $7400.

Bids will be received by J. J. Wilson, City Clk., until 9 a.m., July 13, for paving North Second St. with concrete.

+Buhl, Minn.—A contract for paving 20,000 yd. with bitulithic has been awarded to the GENERAL CONTRACTING CO. at $1.81 per yd.

+Glenwood, Minn.—(Official)—The contract for improving Road No. 25 has been awarded to D. B. DOUGHERTY, Willmar at $10,992. Noted June 18.

Omaha, Neb.—Bids will be received until July 14 for 100,000 yd. of paving of all materials. T. J. Flynn is City Clk.

Harold, S. D.—Bids will be received by J. H. Starkey, Audr. Hughes County until 2 p.m., July 11, for grading a road.

Sioux Falls, S. D.—Bids will be received by Walter C. Leyse, City Audr., until 9 a.m., July 13, for paving 21st St. from Phillips to Seventh Sts. S. B. Howe is City Engr.

+Helena, Mont.—The contract for paving the West Main St. District has been awarded to ADAMI BROS. at $5917.

Harrisonville, Mo.—Bids will be received until July 11 for 5000 yd. of paving. Fred Mayer is City Clk.

Sikeston, Mo.—(Official)—Bids will be received by H. A. Smith, City Clk. until 8 p.m., July 13, for constructing about 3400 sq.yd. of concrete paving. Benjamin L. Parker is City Engr.

+Hot Springs, Ark.—The contract for building the Little Rock - Hot Springs Highway has been awarded to W. MURPHY at between $15,000 and $20,000.

+Beaumont, Tex.—The contract for constructing a highway to connect Beaumont with Orange has been awarded to the LAKE DREDGING CO. at about $6500.

Ennis, Tex.—See item under "Water Supply and Irrigation."

Oakville, Tex.—An election will be held in August to vote on the proposition to issue $100,000 of road and bridge bonds.

★+San Antonio, Tex.—Contracts have been awarded for paving as follows:

Lakeview Ave. from Smith St. to Cameron St. to the BEEBE CONSTRUCTION CO. at $39,894.

Romana St. from the river to Augusta St. to UVALDE ROC KASPHALT CO. at $8353.

Augusta St. from Romana St. to Richmond Ave. to the UVALDE ROCK ASPHALT CO. at $1866.

Richmond Ave. from Augusta St. to Main Ave. to the UVALDE ROCK ASPHALT CO. at $11,408.

West Laurel St. from North Flores St. to Pecos St. to the UVALDE ROCK ASPHALT CO. at $10,017.

Josephie St. from Jones Ave. to river to the WESTERN PAVING CO. at $8016.

McCullough Ave. from Dewey Place to Woodlawn Ave. to the TEXAS GRANITOID CO. at $15,976.

Belknap Pl. from Dewey Pl. to King's Highway to the TEXAS GRANITOID CO. at $34,519.

Macon St. from Main Ave. to Jones Ave. to the EUREKA PAVING CO. at $18,109.

Pecan St. from St. Mary's St. to Navarro St. to the WESTERN PAVING CO. at $3226.

Pecan St. from Jefferson St. to Avenue C to the WESTERN CONSTRUCTION CO. at $2445.

Martin St. from Third St. to St. Mary's St. to the TEXAS GRANITOID CO. at $9243.

St. Mary's St. from Travis St. to the river to the ROACH-MANIGAN PAVING CO. at $12,653.

Taylor St. from Martin St. to Fourth St. to the ROACH-MANIGAN PAVING CO. at $5103.

Bonham St. from Nacogdoches St. to Commerce St. to the ROACH-MANIGAN PAVING CO. at $4367.

Arsenal St. from Laredo St. to the river to the TEXAS GRANITOID CO. at $15,299.

Aransas St. from South Flores St. on block east to the ROCKASPHALT CO. at $8353.

Las Moras St. from San Fernando St. to Saunders Ave. to the ROACH-MANIGAN CO. at $4876.

Military Plaza, east side, including Dolorosa St. intersection, to the ROACH-MANIGAN CO. at $11,755.

Bowie St. from Nacogdoches St. to Commerce St. to the EUREKA PAVING CO. at $9668.

Hays St. from Chestnut St. to New Braunfels Ave. to the WESTERN PAVING CO. at $19,886.

Hackberry St. from Commerce St. to Grayson St. to the BEEBE CONSTRUCTION CO. at $73,282.

Starr St. from Chestnut St. to Pine St. to the STANDARD ROOFING CO. at $22,024.

New Braunfels St. from Vann Ness St. to Grayson St. to the STANDARD ROOFING CO. at $14,520.

Burnet St. from Hackberry St. to Chestnut St. to M. A. SWATEK & CO. at $14,080.

Sycamore St. from Commerce St. to North St. to RUSHMORE & GOWDY at $9676.

Santa Clara Ave. from Lafitte St. to Plum St. to RUSHMORE & GOWDY at $2230.

Moyer Boulevard from Hackberry St. to Cherry St. to ROACH-MANIGAN at $5387.

Carolina St. from Cherry St. to South Presa St. to RUSHMORE & GOWDY at $13,083.

Hackberry St. from Denver St. to Commerce St. to the BEEBE CONSTRUCTION CO. at $50,128.

Woodlawn Ave. from Belknap St. to Fredericksburg Road to the TEXAS BITULITHIC CO. at $61,556.

Plum St. from Santa Clara Ave. to Goliad St. to the STANDARD ROOFING CO. at $13,432.

Wyoming St. from Plum St to Walnut St. to the STANDARD ROOFING CO. at $3429.

Labor St. from Carolina St. to Goliad St. to the BEEBE CONSTRUCTION CO. at $26,853.

Camargo St. from Labor St. to South Presa St. to the BEEBE CONSTRUCTION CO. at $15,719.

Water St. from Lavaca St. to Commerce St. to the BEEBE CONSTRUCTION CO. at $20,617.

Presa St. from River to Alamo St. to the ROACH-MANIGAN CO. at $16,718.

Pereida St. from Garden St. to South Alamo St. to the UVALDE ROCK ASPHALT CO. at $7060.

Johnson St. from Alamo St. to River Ave. to the UVALDE ROCK ASPHALT CO. at $5634.

Beauregard St. from river to South Alamo St. to the UVALDE ROCK ASPHALT CO. at $7588.

Garden St. and Roosevelt Ave. from Pereida St. to Eads Ave. to the TEXAS GRANITOID CO. at $85,644.

Eads Ave. from Roosevelt Ave. to Presa St. to the ROACH-MANIGAN CO. at $1240.

East Nueva St. from Garden St. to Alamo St. to the UVALDE ROCK ASPHALT CO. at $3632.

Temple St. from Adams St. to Garden St. to the UVALDE ROCK ASPHALT CO. at $4462.

Mitchell St. from Roosevelt Ave. to South Presa St. to the ROACH-MANIGAN PAVING CO. at $7556.

Gembler St. from South Presa St. to Garden St. to the ROACH-MANIGAN CO. at $1240.

Third St. from Avenue C to Avenue B to the UVALDE ROCK ASPHALT CO. at $14,286.

North Laredo St. from Morales St. to North Flores St. to the STANDARD ROOFING CO. at $20,393.

Cameron St. from Commerce St. to extension of Morales St. to the STANDARD ROOFING CO. at $17,945.

Jefferson St. from Pecan St. to Martin St. to the UVALDE ROCK ASPHALT CO. at $2286.

Fourth St. from river to Nacogdoches St. to the UVALDE ROCK & ASPHALT CO. at $13,958.

Eighth St. from Avenue C to Austin St. to the WESTERN PAVING CO. at $6060. Noted Jan. 4.

✚Phœnix, Ariz.—The contract for improving Jefferson St. between First and Eleventh St. has been awarded to the BARBER ASPHALT PAVING CO., at $56,037.

✚Olympia, Wash.—(Official)—The contract for paving approximately four miles of National Park Highway has been awarded to R. N. HOWARD, Brooklyn, at $7231. Other bids were: Cascade Construction Co., Burlington, $8242; Hines & Tuttle, Montesano, $8392. Noted Jun. 18.

✚Shelton, Wash.—The contract for constructing Permanent Highway No. 2 has been awarded to A. C. KENT, DAVID ELLISON, E. C. LEISURE, Shelton, at $11,974. Other bids were: David Govon, $14,555; Albred & James, $15,150; Pugh & Arenz, $15,500; Cascade Construction Co., $16,120; August Wallin, $12,850. Noted Jun. 25.

✚Walla Walla, Wash.—The contract for graveling Highway No. 6 has been awarded to HENRY BENZELL at $14,987.

✚Falls City, Ore.—The City Council has awarded a contract for macadamizing streets in the downtown district to W. B. STEVENS at $5525.

✚Lebnon, Ore.—G. T. MORGAN, 716 Broadway Bldg., Portland, has been awarded the contract for laying 10,200 sq.yd. of 6-in. concreet pavement on Grant St.

✚Seaside, Ore.—WARREN CONSTRUCTION CO., Portland, has received the contract for hard surface pavement on Third St., from Broadway to 12th Ave., about one mile.

Hemet, Calif.—The city contemplates paving Florida Ave. between Carmalita and Buena Vista, between Buena Vista and San Jacinto and between Gilbert and Allesandro; State St. between Florida and Central, Harvard St. between Florida and Acacia, Latham Ave. between Harvard and Florida, Kimball Ave. between State and Harvard, and alleys between Harvard and Carmalita with concrete.

✚Los Angeles, Calif.—GEORGE R. CURTIS has been awarded the contract for improving Bunker Hill Ave. at $9172.

The FAIRCHILD-GILMORE-WILTON CO., has been awarded the contract for improving Tenth St. at $16,090.

GEORGE H. OSWALD has been awarded the contract for omproving Grand Ave. from Jefferson to Flower St. at $33,-707.

Pomona ,Calif.—Bids will be received by F. R. Trotter, City Clk., until noon, July 13, for paving a number of streets with concrete. C. E. Bagley is City Engr.

✚San Francisco, Calif.—The Panama-Pacific International Co. has awarded a contract for the construction o fasphalt surface for roadways at the Exposition site to the RAISCH IMPROVEMENT CO. at $52,780.

✚Santa Ana, Calif.—THE CONNER CONSTRUCTION CO. has been awarded the contract at $29,887 for improving about seven miles of Los Alamitos and Section 2, Bay City Road.

✚Verdun, Que.—(Montreal Post Office)—A contract for paving has been awarded to QUINLAN & ROBERTSON, LTD., 1680 St. Patrick St., Montreal, at $182,910.

✚Berlin, Ont.—The contracts for paving Victoria St., about 11,000 sq.yd., and Weber and Water Sts., about 10,000 sq.yd., have been awarded to the CANADA CREOSOTING CO. at $3.10 per sq.yd .and to the WARREN BITUMINOUS CO. at $2.53 per sq.yd., respectively.

✚Winnipeg, Man.—The contract for constructing asphalt pavement on Notre Dame Ave. has been awarded to H. GALBRAITH at $9286.

✚Moose Jaw, Sask.—The contract for constructing 19,000 sq.yd. of No. 1 asphaltic concrete pavement has been awarded to the NATIONAL PACING & CONTRACTING CO., Winipeg, Man., at $59,528.

Swift Current, Sask.—Bids will be received until July 14 for constructing concrete sidewalks. Ward Curlee is City Engr.

Revelstroke, B. C.—The City Council has voted to construct concrete sidewalks at estimated cost of $15,000.

INDUSTRIAL WORKS

✚Athol, Mass.—The Union Twist Drill Co. has awarded a contract to the E. J. CROSS CO., 82 Foster St., Worcester, Mass., for two brick and reinforced concrete buildings. One will be three stories, 60x120 ft., and the other one-story, 25x100 ft. Noted Apr. 23.

Clinton, Mass.—The Clinton Wire Cloth Co. will build an 86x100 ft. brick and reinforced concrete addition to its plant.

✚Hopedale, Mass.—The Grafton & Upton R.R. has awarded a contract to the J. W. BISHOP CO., Worcester, Mass., for a 78x83 ft. concrete roundhouse, at $10,000.

Lowell, Mass.—The Middlesex Co. will build a $22,000 woolen mill on Warren St.

✚Springfield, Mass.—The Fisk Rubber Co. has awarded a contract to the F. T. LEY CO. for a three-story, brick and steel addition to its factory.

Ithaca, N. Y.—W. Davis, Green St., plans to build a 50x130 ft. garage, costing $14,000.

✚Mt. Vernon, N. Y.—The Ward Motor Vehicle Co. has awarded a contract for a $75,000 reinforced concrete factory to FOUNTAIN & CHOATE, 119 East 23rd St., New York, N. Y.

New York, N. Y.—(Borough of Manhattan)—Elsie T. Underhill has filed plans for a twelve-story, brick factory, to be built at Tenth Ave. and 37th St. The cost will be $345,000. Hill & Stout, 299 Madison Ave., are the Archs.

(Borough of Queens)—The Kazan Carpet Co. Inc., 1115 Broadway (Borough of Manhattan), will build a two-story, 125x205-ft. factory, at Webster and Eighth Aves., Long Island City.

(Borough of Manhattan)—Frederick G. Bourne, 149 Broadway, has awarded a contract to McDERMOTT & HANIGAN, INC., 103 Park Ave., for a three-story, 50x80-ft. brick garage, to be built at 259 West 69th St. The cost is estimated at $40,000.

✚(Borough of the Bronx)—William Vincent Astor, West 26th St., has awarded a contract to the GILLI CAMPBELL CO., 101 Park Ave., for a two-story brick stone factory, to be built on the Bronx River and 150th The cost will be $30,000.

✚(Borough of Brooklyn)—T. L. Neff's Sons, Inc., Mayer St., has awarded a contract to JOHN AUER & S 648 Lexington Ave., for a two-story, 50x98-ft. brick facto at $10,000. Frank J. Berlenbach, 260 Graham Ave., is Arch.

(Borough of Richmond)—The American Dock Co., 17 St St., New York, N. Y. (Borough of Manhattan), is receiv bids for a seven-story, 120x132-ft. storage warehouse, to built in Tompkinsville, S. I. The cost will be about $175,0 The Concrete Steel Co., 32 Brodway (Borough of Manhatta is the Arch.

✚New York, N. Y.—(Borough of Manhattan).—Waterm & Co. has awarded a contract to the TURNER CONSTRU TION CO., 11 Broadway, New York, N. Y., for a ten-sto factory, to be built at 163 Front St. The cost will be $60,0

✚Schenectady, N. Y.—Jonathan Levi & Co. has awarded contract to BROWN & LANE for a five-story, 100x120-f concrete warehouse.

Harrison, N. J.—The Driver-Harris Wire Co. will build one-story, 75x120-ft. addition to its plant. The structure wil cost about $13,000.

✚Harrison, N. J.—The General Electric Co., Schenectady N. Y., has awarded a contract to the SALMOND BROS. CO for a three-story addition to its local plant.

Jersey City, N. J.—Vietmeyer Bros. will build a three-story, brick building, and a one-story addition on Sherman Ave.

Trenton, N. J.—The United & Globe Rubber Mfg. Co. will spend $50,000 in building additions to its plant.

Altoona, Penn.—The Pennsylvania R.R. plans to build an $80,000, spring annealing plant, as an addition to its local shops.

✚Homestead, Penn.—The Lawson Mfg. Co. has awarded a contract to the NICHOLS CONSTRUCTION CO. for a two-story, 60x228-ft. factory and warehouse. The cost will be $75,000.

✚Oil City, Penn.—The Carnahan Storage Co. has awarded a contract to TAUPET, BEIL & CONLEY, for a reinforced concrete building, at $13,000.

Philadelphia, Penn.—The Quaker City Rubber Co. will build a four-story, 60x50-ft. factory at Comly and Milnor Sts. Ballinger, Perrott & Perrott are the Archs.

The Duplan Silk Co. will build a 90x198-ft. weaving shed. Joseph R. Foster & Sons plan to build a two-story, 56x141-ft. dye house, at Second and Lippincott Sts.

✚Philadelphia, Penn.—The Pennsylvania Sugar Refining Co. has awarded a contract to the GUERNSEY-O'MEARA CONSTRUCTION CO., North American Bldg., for a 125x228-ft. warehouse at Delaware Ave. and Shackamaxon St. The cost will be $200,000.

Philadelphia, Penn.—The Wrigley Mfg. Co. will build a two-story, 51x78-ft. factory on Windrim Ave.

Philadelphia, Penn.—John T. Sims & Bros., Aramingo Ave., will build a three-story, 50x120-ft. factory.

Zelienopole, Penn.—W. C. Ladirer will build a 124x324-ft. carriage factory.

✚Baltimore, Md.—The Gandy Belting Co. has awarded a contract to the TUFTS CONSTRUCTION CO. for a six-story, 171x144-ft. factory, at $120,000. Noted June 25.

The City Dairy Co. is reported to be planning a $500,000 plant, to be built at Maryland Ave. and 29th St. Joseph Evans-Sperry is the Arch.

Baltimore, Md.—The Hannis Distilling Co. will build a six-story brick warehouse on Stockholm St.

Atlanta, Ga.—The Coco Cola Co. plans to build a $500,000 plant at Pratt and Concord Sts.

Eufaula, Ala.—The Eufaula Oil Mills Co. plans to build a $30,000 mill.

✚Cincinnati, Ohio.—The Victor Auto Parts Co., Spring Grove Ave., has awarded the following contracts for a four-story, 60x159-ft. addition to its plant: GEORGE NOLTE, masonry; E. MEYER & CO., roofing; D. MEMKEN, carpentry; and S. SCHRIEBER & SONS, steel-metal work. Noted June 18.

Cleveland, Ohio—The Victor Oil Co. has filed plans for a 44x149-ft. addition to its plant at 1530 St. Clair St. George F. Hammond is the Arch.

✚Youngstown, Ohio—The Youngstown Iron & Steel Co. has awarded a contract to JULIAN KENNEDY, Pittsburgh, Penn., for three open hearth furnaces at 75 ton each, a bar mill, slab mill and a universal mill. The cost will be $1,000,000.

Detroit, Mich.—The Larned-Carter Co. plans to build a five-story and basement factory, costing $100,000. Smith, Hinchman & Grylls, Washington Arcade Bldg., are the Archs.

Detroit, Mich.—The Ford Motor Co. plans to erect seven six-story buildings as additions to its central plant. About $5,000,000 will be spent.

Chicago, Ill.—The Carter White Lead Co., 1200 South Peoria St., will erect a six-story factory, estimated to cost $200,000. A. S. Coffin, 64 West Randolph St., is the Arch.

The J. J. Harrington Co., 1430 South Rockwell St., has filed plans for a one-story, brick factory, costing $15,000.

Chicago, Ill.—C. H. Kissell, Stock Exchange Bldg., will build an 80x175-ft. garage and repair shop at 3911 Clarendon St., to cost $17,500. R. Harris, 13 North La Salle St., is the Arch.

Mackinaw, Ill.—The Kunkle Furniture Co. plans to build a two-story and basement, 50x125-ft. factory.

Kenosha, Wis.—The Simmons Mfg. Co. will build a $100,000 addition to its factory.

Kansas City, Kans.—The Uncle Sam Oil Co. plans to build a $1,000,000 refinery. H. H. Tucker, Jr., is Pres.

Miles City, Mont.—The Eastern Brewing Co. will build a $100,000 plant.

✚Oxford, Mont.—The Farmers' Elevator Co., Judith Gap, Mont., has awarded a contract to the BURRELL ENGINEERING & CONSTRUCTION CO., Spokane, Mont., for a 30,000 bu. elevator.

Morrilton, Ark.—The Morrilton Cotton Warehouse Co. will build a 220x350-ft. cotton warehouse.

San Antonio, Tex.—The Brown Cracker & Candy Co. has purchased a site at Medina and El Paso Sts., on which it will build a two-story, 164x222-ft. factory.

Fallon, Nev.—The Churchill Creamery Co., Winnemuca, Nev., will build a creamery and cheese factory. The estimated cost is $12,000. C. J. Heisley is Mgr.

✚Seattle, Wash.—The Port Commission has awarded a contract to the BUTLER CONSTRUCTION CO., Central Bldg., for the concrete foundations of a $300,000 grain elevator.

Walla-Walla, Wash.—The Oregon-Washington R.R. plans to build a ten-stall concrete roundhouse.

✚Easton, Calif.—C. FREDERICK KOHL has been awarded a contract for a one-story, reinforced-concrete garage, to cost about $14,000.

Fresno, Calif.—The Fresno High School is to have a $25,000 addition built to its machine shop. C. C. Starr is secy. of the Bd. of Education.

Los Angeles, Calif.—The Davies Warehouse Co., 411 East Second St., plans to build two warehouses, each five-story, of reinforced concrete. The cost is estimated at $125,000.

San Francisco, Calif.—O'Brien Bros., Archs., Clune Bldg., will soon award a contract for a one-story commercial garage, for the Bishop Estate, Jackson St., near Van Ness Ave. The cost will be $25,000.

Bertgier, Que.—The Milcher Gin Co. plans to build a $60,000 distillery. Saxe & Archibald, Beaver Hull Hill, Montreal, Que., are the Archs.

St. Johns, Que.—The Canadian Hart Accumulator Co. plans to build a $70,000 factory. Septimus Warwick, Guarantee Bldg., Montreal, Que., is the Arch. Noted Sept. 25.

Brantford, Ont.—The Canada Glue Co. plans to build a $50,000 plant. Paul Kreisman, 44 William St., is the Arch.

Sarina, Ont.—The Mueller Brass Co. plans to build a $25,000 foundry. O. B. Mueller is Mgr.

✚Toronto, Ont.—The general contract for the erection of the warehouse for the J. R. Watkins Medical Co., has been awarded to HAGLIN & STAHR, 228 Lumber Exchange Bldg., Minneapolis, Minn. The estimated cost is $80,000.

New Westminster, B. C.—The St. Wingo Cold Storage Co. plans to build a $40,000 plant.

Vancouver, B. C.—The British Columbia Electric Co. has filed plans for car barns to be built at 14th Ave. and Main St. The cost will be $275,000.

FEDERAL GOVERNMENT WORK

Building, Wharf, Retaining Wall, Etc.—Boston, Mass.—Bids were received June 25, for the construction, of the wharf, retaining wall, and approaches, of the U. S. immigration station at Boston, as follows: The Conners Bros. Co., Lowell, Mass., $296,810; H. P. Converse & Co., 88 Broad St., Boston, Mass., $316,000; George A. Fuller Co., 131 State St., Boston, Mass., $249,000; C. S. Cunningham & Sons Construction Co., 7 Water St., Boston, Mass., $273,288; M. Yaeger & Son, Danville, Ill., $311,825; The Charles McCaul Co., Philadelphia, Penn., $279,828; Wells Bros. Co., New York, Riggs Bldg., Washington, D. C., $313,000; Woodbury & Leighton, 185 Summer St., Boston, Mass., $304,940; George B. Long, Worcester, Mass., $295,000; The Norcross Bros. Co., Worcester, Mass., $294,968; P. J. Carlin Construction Co., 1123 Broadway, New York, $307,000. Noted May 28.

★Dredging—Providence, R. I.—Bids were received June 30, by Col. John Millis, Corps Engrs., U. S. A., for dredging about 2,000,000 cu.yd. in Providence River, R. I., as follows: J. S. Packard Dredging Co., Providence, R. I., 0.0798c. per cu.yd., Bay State Dredging Co., Boston, Mass., 0.139c.; Eugene Breymann, Toledo, Ohio, 0.095c.; Maryland Dredging & Contracting Co., Baltimore, Md., 0.0993c.; Morris & Cumings Dredging Co., New York, N. Y., 0.0819c.; Canal Construction Co., New York, N. Y., 15c.; E. J. Dineen, Ogdensburg, N. Y., 0.085c. Noted June 4.

★✚Electrical Fixtures—Governors Island, N. Y.—The contract for rewiring and furnishing new electrical fixtures in various buildings on Governors Island, has been awarded to T. FREDERICK JACKSON, Inc., New York, at $12,849. Noted June 4.

★✚Hanger and Guard House—Governors Island, N. Y.—The contract for constructing the hanger has been awarded to the CONCORD CONSTRUCTION CO., Brooklyn, N. Y., at $4492; and the NATIONAL CONCRETE & CONSTRUCTION CO., New York, at $1255 for the guardhouse. Noted May 21.

Buoys and Appendages—Tompkinsville, N. Y.—Bids will be received until 2 p.m., July 29, by the Light-House Inspector, Third District Tompkinsville, for furnishing buoys and appendages for 1915.

✚Dredging—Philadelphia, Penn.—The contract for dredging in the reserve basin at the navy yard, Philadelphia, has been awarded to the AMERICAN DREDGING CO., 308 Chestnut St., Philadelphia, Penn., at $9075. Noted May 21.

✚Water Tube Boilers—Philadelphia, Penn.—The contract for furnishing two water tube boilers has been awarded by Lieut. Col. Cyrus S. Radford, to the HEINE SAFETY BOILER CO., St. Louis, Mo. at $8332. Noted Feb. 26.

Jetty Work—Wilmington, Del.—The lowest bidder for furnishing and placing stone for repairs to jetties, Cold Spring Inlet, N. J., was the Conger Duncan Construction Co., New York, at $2.92 per ton. Noted June 11.

Switchboard—Washington Barracks, D. C.—Bids will be received until 11 a.m., July 23, by Lt. Col. Joseph E. Kuhn, Corps Engrs., U. S. A., for furnishing one direct-current switchboard of 16 panels.

Dredging—Norfolk, Va.—Bids were received June 23, by Lt. Col. E. Eveleth Winslow, Corps Engrs., U. S. A., for dredging inland waterway from Norfolk, Va., to Beaufort Inlet, N. C., as follows: Bowers Southern Dredging Co., Galvestonfl Tex., 0.059c., per cu.yd. total $100,300; Atlantic Gulf & Pacific Co., New York, 0.0623c., $105,910; Sanford & Brooks Co., Baltimore, Md., 0.0685c., $116,450; Maryland Dredging & Contracting Co., Baltimore, Md., 0.07c., $119,000; Norfolk Dredging Co., Norfolk, Va., 0.1025c., $174,250; Southern Dredging Co., Mobile, Ala., 0.0685c., $116,450; Home Dredging Co., 0.08c.; $136,000. Noted May 28.

Poiree Trestles, Etc.—Wheeling, W. Va.—Bids were received June 18, by Maj. J. P. Jervey, Corps Engrs., U. S. A., for furnishing and delivering poiree trestles and recess engine pit covers for Dams Nos. 19 and 28, Ohio River, as follows: (a) 129,200 lb. metal work for Dam No. 19, (b) 223,800 lb. metal work for Dam No. 28; American Bridge Co. of New York, Pittsburgh, Penn., (a) $3010, (b) $6445, (c) total, $9456; King Bridge Co., Cleveland, Ohio, (a) $3036, (b) $7050, (c) $10,086; W. N. Kratzer & Co., Pittsburgh, Penn., (a) $3385, (b) $6177, (c) $9562; Union Foundry & Machine Co., Pittsburgh, Penn., (a) $3552, (b) $6638, (c) $10,190; Penn Bridge Co., Beaver Falls, Penn., (a) $2842, (b) $5931, (c) $8773 (recommended for acceptance); Henry Vogt Machine Co., Inc., Louisville, Ky., (a) $3715, (b) $8952, (c) $12,667; J. E. Moss Iron Works, Wheeling, W. Va., (a) $5491, (b) $9512, (c) $15,003. Noted May 28.

Levee—Vicksburg, Miss.—Bids will be received until 11 a.m., July 13, by Maj. J. R. Slattery, Corps Engrs., U. S. A., for about 7500 cu.yd. of levee work.

✚Building—New Orleans, La.—The contract for the erection of the radio building at the naval station, has been awarded to HENRY MONK, Pensacola, Fla. at $5780. Noted June 25.

Repairs to Buildings—New Orleans, La.—The date of receiving bids for repairs to buildings, Naval Station, New Orleans, has been extended from 11 a.m., July 6 to 11 a.m., July 18, by H. R. Stanford, Chief Bureau of Yards and Docks, Navy Dept., Washington, D. C. Noted June 11.

Repairs to Wharf—New Orleans, La.—The date of receiving bids for repairs to wharf at New Orleans, has been extended from 11 a.m., July 6, to 11 a.m., July 18, by H. R. Stanford, Chief, Bureau of Yards & Docks, Navy Dept., Washington, D. C. Noted June 11.

Riprap Stone—Memphis, Tenn.—Bids will be received until 11 a.m., July 27, by Maj. E. M. Markham, Corps Engrs., U. S. A. for furnishing about 40,000 tons of riprap stone, rail delivery.

✚Post Office—Winchester, Tenn.—Oscar Wenderoth, Superv. Arch., Treasury Dept., Washington, D. C., has awarded contract for the construction of a post office at Winchester to ALGERNON BLAIR, Montgomery, Ala., at $45,219.

★Buildings—West Point, Ky.—Bids will be received until 11 a.m., July 31, by Maj. J. C. Oakes, Corps Engrs., U. S. A., for constructing four brick dwellings at Dam No. 43, Ohio River, four miles below West Point, Key.

Building—Cincinnati, Ohio—Bids were received by the Secretary, Dept. of the Interior, for the erection of a two-story and cellar brick cement building for the weather bureau at Cincinnati, Ohio as follows: De Riso Co., Union, N. J., $18,228; McLennen Bros., Cincinnati, Ohio, $16,261; Charles Griffith & Sons Co., Cincinnati, Ohio, $17,750; Samuel Hurr, Cincinnati, Ohio, $16,000; Ohio Building & Construction Co., Cincinnati, Ohio, $15,900; William Miller & Son, Cincinnati, $16,927. Noted June 18.

Elevators—Dayton, Ohio—Bids were received by Oscar Wenderoth, Superv. Arch., Treasury Dept., Washington, D. C., for the installation of two electric passenger elevators, three hydraulic lifts, and a pumping plant in the U. S. post office and courthouse at Dayton as follows: The Ohio Elevator & Machine Co., Columbus, Ohio, $14,000, Faunt Le Roy Elevator Co., Baltimore, Md., $12,432; Kaestner & Hecht Co., Chicago, Ill., $13,794; Otis Elevator Co., Washington, D. C., $13,763. Noted June 11.

River Bulkhead—Alpena, Mich.—Bids were received for Alpena, follows: Jenkins & Davison, Alpena, Mich., at $6350; John Monaghan, Alpena, Mich., $4925; Riley & Monkman, Alpena, $12,930. Noted June 11.

★Breakwater—Chicago, Ill.—Bids will be received until 10 a.m., July 23, by Lieut.-Col. W. V. Judson, Corps Engrs., U. S. A., for constructing timber breakwater at Chicago Harbor, Ill.

✚Building—Great Lakes, Ill.—The contract for constructing a two-story brick building at the naval station, Great Lakes has been awarded to C. W. PENCE, Waukegan, Ill., at $14,515. Noted June 4.

✚Towers—Great Lakes, Ill.—The following bids were received by the Chief, Bureau of Yards & Docks, Navy Dept., Washington, D. C., for constructing foundations for two 400 ft. steel towers at the Naval Training station: C. W. PENCE, 231 North St. James St., Waukegan, Ill., $2480; (a) excavation $1 per cu.yd., (b) concrete $10 cu.yd. (awarded contract) M. E. Baldwin Construction Co., 140 South Dearborn St., Chicago, Ill., $4195; M. McCugo, Waukegan, Ill., (a) $1.50, (b) $14; R. F. Wilson & Co., 154 West Randolph St., Chicago, Ill., $4020. Pittsburgh Des Moines Steel Co., 886 Curry Bldg., Pittsburgh, Penn., $3500; John Jeffrey, 127 North Dearborn St., Chicago, Ill., $2975. Noted July 2.

★✚Steel Work and Cable—Ashland, Wis.—The contract for furnishing 11,000 ft. of submarine armored cable for the Ashland light station, has been awarded to the STANDARD UNDERGROUND CABLE CO., at $2739. Noted May 28.

★Gates, Etc.—Great Falls, Mont.—Bids will be received until 2 p.m., Aug. 4, by F. H. Newell, Dir. U. S. Reclamation Service, Great Falls, for furnishing structural steel and stands and accessories, for projects in the northern division.

★Metal Flumes—Great Falls, Mont.—Bids were received for furnishing and delivering f. o. b. manufacturer's plant, metal flumes as follows: (a) 97 lin. ft. of 5 ft. 9 in. flumes, (b) 32 lin. ft. 5 ft. 9 in flumes, (c) 6 ft. 4¼ in. (d) 7 ft., (e) 10 ft. 10 in., (f) 10 ft. 10 in. (curved), (g), 11 ft. 5¼ in:

Hess Flume Co., 2166 15th St., Denver, Colo., (a) $101, (b) $37, (c) $118, (d) $9, (e) $4156, (f) $518, (g) $33, (h) total $4972; Hinman Hydraulic Mfg. Co., 1400 West Colfax Ave., Denver, Colo., (a) $116, (b) $40, (c) $126, (d) $13, (e) $5157, (f) $615; (g) $41, (h) $6108; Coast Culvert & Flume Co., Portland, Ore., (a) $126, (b) $42, (c) $152, (d) $10, (e) $5560, (f) $630, (g) $40, (h) $6560; Klauer Mfg. Co., Dubuque, Iowa, (a) $162, (b) $53, (c) $172. (d) $10, (e) $5463, (f) $714, (g) $42, (h) $6617; Colorado Culvert & Flume Co., Pueblo, Colo., (a) $170, (b) $56, (c) $185, (d) $13, (e) $6255, (f) $840, (g) $42, (h) $7561. Noted June 11.

Levee Work—Garland, Ark.—All bids received June 4, by Capt. Ernest Graves, Corps Engrs., U. S. A., Vicksburg, Miss., for constructing levee on Red River have been rejected. Noted May 14.

✚Electric Lighting System—Fort Bliss, Tex.—The contract for additions to the electric lighting system at Fort Bliss has been awarded to the NATIONAL TELEGRAPHONE & SUPPLY CO., El Paso, Tex. Noted May 28.

★Pipe—Denver, Colo.—Bids will be received until 2 p.m., July 30, by F. H. Newell, Dir., U. S. Reclamation Service, 519 Commonwealth Bldg., Denver, for constructing approximately 1750 lin.ft. of 60-in., 8560 lin.ft. of 32-in., and 2406 lin.ft. of 24 in. diameter continuous wood stave pipe for the Belle Fourche Project, South Dakota, the Uncompahgre Valley Project, Colo., and the North Platte Project, Nebraska.

Post Office—Greeley, Colo.—Bids were received as follows, June 30, by Oscar Wenderoth, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of a post office at Greeley, (a) limestone; (b) sandstone; (c) white Colorado marble, (d) white marble, other than Colorado: J. H. Wiese, Omaha, Neb., (a) $95,260; (c) $127,980; (d) $117,760; R. J. Nelson, Greeley, Colo., (a) $125,350; (b) $146,715; (c) $166,290; Eugene Shuler, Pasadena, Calif., (a) $99,000; (b) $108,00; (c) $135,000. Dieter & Wenzel Construction Co., Wichita, Kan., (a) $97,983; (b) $97,983; (c) $131,000; (d) $118,360. George Hinchcliff Co., Chicago, Ill., (a) $102,200; (c) $127,200; (d) $126,000. F. H. Cowell, Denver, Colo., (a) $105,447; (b) $115,505; (c) $136,135. One-story and basement building with mezzanine, stone-faced, 6000 ft. ground area, fireproof construction. Noted May 28.

★Bridge—Boise, Idaho—Bids will be received until 2 p.m., July 30, by F. H. Newell, Dir., U. S. Reclamation Service, Boise, for erecting one 96-ft. span steel highway bridge over the spillway chanel, Arrowrock Dam, Boise project, Idaho.

Turbine Exciter—Puget Sound, Wash.—Bids will be received until 11 a.m., July 25, by H. R. Stanford, Chief Bureau of Yards & Docks, Navy Dept., Washington, D. C., for furnishing and installing one 35-kw. turbine driven exciter in the central power plant at the Navy Yard, Puget Sound, Wash. Noted Incorrectly July 2.

Post Office—Medford, Ore.—Bids will be received until 3 p.m., Aug. 22, by Oscar Wenderoth, Superv. Arch., Treasury Dept., Washington, D. C., for the construction, complete (including mechanical equipment except elevators) of the U. S. post office at Medford, Ore.

Boilers and Accessories—Guanatanamo, Cuba—Bids will be received until 11 a.m., July 25, by H. R. Stanford, Chief, Bureau of Yards and Docks, Navy Dept., Washington, D. C., for furnishing and installing four 200-hp. water tube boilers, with accessories, in the central power plant, naval station, Guantanamo.

MISCELLANEOUS

Dredging—Boston, Mass.—(Official)—Bids will be received until 11 a.m., July 14, by the State Board of Harbor and Land Commissioners, Boston, for dredging in Wild Harbor and Cuttyhunk Harbor. The work calls for 66,000 cu.yd. William F. Williams is Ch. Engr.

Breakwater—Boston, Mass.—Bids will be received until July 14 by the State Harbor and Land Commissioners, Boston, for a pile and timber breakwater at Nobscusset Point. William F. Williams is Ch. Engr.

★Museum Cases—Albany, N. Y.—(Official)—Bids will be received until noon, July 21, by Dr. John H. Finley, Comr. of Education, New York State Education Bldg., Albany, for Type AA museum cases for the New York State Education Bldg. Lewis F. Pilcher, Capitol, Albany, is State Arch.

Dredging, Etc.—Buffalo, N. Y.—H. G. Ward, Comr. Pub. Wks., has recommended for award the bid of the Great Lakes Dredge & Dock Co., Buffalo, for dredging and widening the Buffalo River. The company bid $38,750.

Dock, Coal Pockets, Etc.—New York, N. Y.—(Borough of Manhattan)—Weber & McLaughlin plan to construct a dock, towers, concrete coal pockets, etc., on property recently purchased at 215th St. and the Harlen River. Estimated cost, $50,000.

★Subway—(Station Finish)—New York, N. Y.—(Borough of Brooklyn)—(Official)—Bids will be received until July 23, by the Public Service Commission, 154 Nassau St., Borough of Manhattan, for the construction of station finish on Sections Nos. 1 and 2 of Route No. 11-B, a part of the Broadway-Fourth Ave., Brooklyn, rapid transit railroad, extending under Fourth Ave. from 40th to 90th St. The stations to be finished are located at 45th St., 53rd St., 59th St. (express), Bay Ridge Ave., 77th St. and 86th St. (express).

★Borings—New York, N. Y.—(Official)—Bids will be received until, July 10, by the Public Service Commission, 154 Nassau St., Borough of Manhattan, for making certain land and river borings preliminary to the work of rapid transit railroad construction, in the boroughs of Manhattan, Brooklyn, Queens and the Bronx and in the East River. These borings will include the sinking of 2½- and 8-in. casings and the drilling for 1- and 6-in. cores with both shot and diamond drills.

★Subway—New York, N. Y.—(Borough of Manhattan)—(Official)—Bids will be received until 12:15 p.m., July 24, by the Public Service Commission, 154 Nassau St., Borough of Manhattan, for the construction of Sect. No. 5 of Routes Nos. 1 and 36, a part of the Broadway-Fourth Ave. subway, a two-track railroad in the Borough of Manhattan, connecting the Broadway Subway with the Queensboro Bridge and extending from Seventh Ave. to Fifth Ave., where the two tracks diverge, one continuing through 59th and the other through 60th St. to Second Ave.

Dikes—Redfield, N. Y.—The State Conservation Commission, Albany, has granted permission to the Salmon River Power Development Co. to construct dikes along the east side of Stillwater Reservoir at Redfield.

Channel Work — Rochester, N. Y. — The city plans to deepen the Genesee River at a cost of $400,000. F. T. Elwood is City Engr.

Dock Work—Keansburg, N. J.—The Keansburg Steamboat Co. will enlarge its dock, now about one-half mile long, to accommodate new tracks of the Jersey Central Traction Co.

Fire Apparatus — Orange, N. J. — The City Commission plans to purchase two motor trucks and two motor hose wagons. D. F. Minahan is City Clk.

Harbor Work—Trenton, N. J.—J. R. Fell, Jr., City Engr., has completed plans for the proposed basin to be constructed in connection with the channel now being dredged. It will be 200x800 ft. Plans for the municipal harbor terminus at Fair and Federal Sts. have also been completed.

Stable—Pittsburgh, Penn.—Brown Bros., Potomoc Ave., Pittsburgh, have submitted the lowest bid to the Department of Charities, for constructing a cow stable, at about $25,000. The building will be two stories high.

✚Barns—State College, Penn.—Pennsylvania State College will construct three dairy barns to cost $30,000.

Fire Station—Wilkes-Barre, Penn.—Bids will be received until noon, July 14, by F. H. Gates, City Clk., for constructing a fire station.

Wharves—Augusta, Ga.—Bids are being asked by the Augusta Barge Line Co., Augusta, for constructing wharves at the foot of Fifth St. The structures will be of steel.

✚Levee—Augusta, Ga.—The city has awarded the contract to A. J. TWIGGS & SONS , Augusta, for constructing levee between Sixth St. and East Boundary, at about $65,000.

✚Ditches—Senatobia, Miss.—The Senatobia Creek Drainage Commission has awarded the contract to A. C. MILLER, Walnut Ridge, Ark., for constructing two main ditches.

✚Levee Work—New Orleans, La.—The State Board of Engineers, New Orleans, has awarded the contract to HELGASON BROS., Vicksburg, Miss., for levee work, at 20c. per cu. yd. The work calls for 900,000 cu. yds.

Drainage—Jackson, Tenn.—Madison County, has sold $75,000 of drainage bonds, and will soon award a contract for the construction of a drainage canal 11 miles long, 55 ft. wide and 11 ft. deep.

Subway—Cincinnati, Ohio—At the election in November the citizens will vote on the proposition to issue $12,000,000 in bonds for the construction of the proposed canal subway. Frank Krug is Ch. Engr.

Elimination of Grade Crossings—Cleveland, Ohio—The city is arranging to spend $712,000 for the elimination of the grade crossings of the New York, Chicago and St. Louis Ry. from Fulton Road S. W., to West 96th St. Robert Hoffman is City Engineer.

✚Pier Work—Chicago, Ill.—The contract has been awarded by the city, it is reported, to E. L. SCHEIDENHELM, for constructing the superstructure of the proposed municipal pier, at $1,091,800.

Grandstand — Ames, Iowa—The Iowa State University, Ames, plans to construct a concrete grandstand and fence. Estimated cost, $40,000.

Drain—Boone, Iowa—Bids will be received until 1 p.m., July 11, by C. E. Richards at the Boone State Bank for constructing Mutual Tile Drain in Harrison Township. Estimated cost, $12,065.

✚Ditch—Bemidji, Minn.—The county has awarded the contract to the NORTHWESTERN DRAINAGE CO., Thief River Falls, Minn., for constructing Ditch 21, at 12c. per cu.yd., or $326,445.

✚Ditch—Crookston, Minn.—The contract has been awarded by the county to WILSON BROS., Cromwell, Minn., for Ditch 91, at 13.9c. per cu.yd., or $16,669.

Ditch—Marshall, Minn.—Bids will be received until July 13 by E. S. Shepard, County Audr., Marshall, for constructing Ditch No. 9. Estimated cost, $17,099.

Lake Protection—St. Jospeh, Mo.—Residents of St. Joseph are considering spending $25,000 to protect Lake Contrary from the encroachment of the Missouri River. Charles Campbell is City Engr.

✚Metal Cases—Little Rock, Ark.—The State Capital Commission has awarded the contract to the DEMOCRAT PRINTING & LITHOGRAPHING CO., Little Rock, for metal vault fittings and filing cases for the state capitol, at $10,250.

✚Terminal—Dallas, Tex.—The contract for constructing the union station and terminals has been awarded to JOHN W. THOMPSON, St. Louis, Mo., at about $3,000,000. In addition to the new station building, the contract includes rearrangement of terminal tracks and a bridge across the Trinity River. All the railroads entering Dallas, eight in number, are to use the new station and terminals, and the work is being paid for by them jointly. The lines interested are the Texas & Pacific Ry., Missouri, Kansas & Texas Ry., St. Louis Southwestern Ry., Frisco Lines, Chicago, Rock Island & Pacific Ry., Atchison, Topeka & Santa Fé Ry., Southern Pacific Co. and the Trinity & Brazos Valley Ry.

Wharves—Houston, Tex.—The citizens of Harris County will vote soon on the proposition to issue $1,000,000, in bonds for wharves along the Houston Ship Channel.

Drydock—Parth Arthur, Tex.—A drydock, 500 ft. long and 75 ft. wide will be built at Port Arthur. Estimated cost, $50,000. Capt. John Harvey, Port Arthur, is interested.

✚Harbor Work—Seattle, Wash.—The W. T. BUTLER CONSTRUCTION CO., Central Bldg., Seattle, has been awarded the contract by the Seattle Port Commission for main elevator foundations, East Waterway terminals, at $25,180. The contract includes 62,000 lin.ft. of piling, as well as foundations. Other bids were: Weymouth Construction Co., $26,272; Franklin Engineering Co., $26,696; alternate bid $25,322; H. Brandt Construction Co., $26,910; Graff Construction Co., $27,243; Washington Construction Co., $28,308; M. J. Hursen Co., $28,600; Puget Sound Bridge & Dredging Co., $28,835; Harrington-Peters Co., $28,940; alternate bid, $27,700; Nettleton-Bruce-Eachbach Co., $30,605; Jahn Constructing Co., $31,540; McRae Bros., $31,697; Sound Construction & Engineering Co., $21,718; C. F. Martin, $32,492.

Comfort Stations—Seattle, Wash.—The city is considering the construction of public comfort stations and rest platforms. Estimated cost, $25,000.

✚Dock Superstructure—Seattle, Wash.—The Port of Seattle Commission has awarded the contract to HARRINGTON-PETERS CO., Seattle, for constructing the superstructure of the Hanford St. Dock, at $87,000. Noted July 2.

Dikes—Tacoma, Wash.—The County Commissioners of Pierce County, Tacoma, will establish a diking district outside the city limits of Tacoma, to reclaim between 1500 and 1900 acres of land.

✚Lumber—Los Angeles, Calif.—The Harbor Commission has awarded the contract to the SAN PEDRO LUMBER CO., for 1,500,000 ft. of lumber to be used in connection with the improvement of the inner harbor.

CONTRACT PRICE

✚Bridge Construction—Tiffin, Ohio—Bids were received by the Board of County Commissioners, May 23, for the construction of three concrete bridges across the Sandusky River at Market, Huss and Ella Sts., Tiffin, from (A) VANG CONSTRUCTION CO., Cumberland, Md. (awarded contract for Market St. bridge); (B) J. H. & LEWIS JONES, Fostoria, Ohio and Kansas, Ohio (awarded contract for Huss St. bridge); (C) Wynkoop, McGormley Co., Toledo, Ohio; (D) N. R. Porterfield, 17 Battery place, New York, N. Y.; (E) A. SCHECKELHOFF & SON, Fremont, Ohio (awarded contract for Ella St. bridge); (F) Walter S. Newhall Co., Citizens' Bldg., Cleveland, Ohio; (G) Fritz-Rumer-Cook-Grant Co., Eberly Bldg., Cleveland, Ohio; (H) I. D. Tuttle Co., Bushnell Bldg., Springfield, Ohio; (I) Morse-McGorriam & Bassett, Cleveland, Ohio. The item bids were as follows:

✚Ferry Boat—Oakland, Calif.—The San Francisco-Oakland Terminal Rys. Co. has awarded the contract for the construction of a 230-ft. ferry-boat to the MOORE & SCOTT IRON WORKS, Oakland, at $305,000.

✚Granite Work—Oakland, Calif.—The City Council has awarded the contract for granite work on the municipal auditorium to the CALIFORNIA GRANITE CO., San Francisco, Calif., at $71,857.

Dry Dock—San Francisco, Calif.—The Union Iron Works will ask for bids soon for the construction of a dry-dock to cost about $2,500,000. John A. McGregor, 2567 Green St., San Francisco, is Pres.

★Tunnel—San Francisco, Calif.—Bids will be received by the Board of Public Works until Aug. 19 for the construction of the Twin Peaks Tunnel. It will be 12,000 ft. long, 30 ft. wide, 28 ft. high and will be lined with concrete. Estimated cost, $3,300,000. Frederick J. Churchill is Secy. Bd. Noted May 21.

Plans and specifications are on file at the office of Engineering News, 505 Pearl St., New York.

Dams and Canals—San Francisco, Calif.—The Department of the Interior has given Leland & Myers, San Francisco, Calif., authority to proceed with reclamation work in Modoc County. About $80,000 will be expended in constructing dams and canals.

Pavilion—San Francisco, Calif.—A National Committee has been formed for the purpose of building a British-American pavilion at the Panama-Pacific International Exposition, San Francisco. This body will work in coöperation with the British Committee formed for the same purpose in London, whose members, it is expected, will contribute funds for the purpose and send an exhibit. This plan has no bearing on the arrangements already made for the British competitive exhibitions in the various industrial sections. Estimated cost, $300,000. The British California Association, San Francisco, is interested.

Foundations for Dam—Santa Barbara, Calif.—S. M. Kerns, 625 West Ocean Ave., Long Beach, Calif., was the lowest bidder at $39,360 for the construction of the foundation for the Gibraltar Dam at Santa Barbara. The work will require approximately 980 cu.yd. of excavating rock on abutments, 6540 cu.yd. of material from the river bed, and placing 5635 cu.yd. of concrete. Noted May 28.

BRIDGE CONSTRUCTION, TIFFIN, OHIO

Market St. Bridge	A	B	C	D	E	F	G	H
3500 cu.yd. earth excavation	$ 0.73	$0.70	$0.50	$0.60	$0.70	$0.57	$1.25	$0.80
550 cu.yd. rock excavation	3.00	5.00	3.40	3.50	3.00	4.00	4.00	4.00
1300 cu.yd. earth fill	0.40	0.50	0.50	0.50	0.40	0.75	0.50	0.40
1200 cu.yd. stone fill	1.25	1.50	1.80	1.25	0.50	1.00	2.00	2.00
1300 cu.yd. concrete, Class A	7.00	7.00	8.00	8.70	8.94	9.50	8.00	8.00
1100 cu.ydl concrete, Class B	9.00	10.00	11.54	12.75	10.00	10.50	12.00	13.40
55 tons reinforcing steel	60.00	50.00	50.00	50.00	53.00	50.00	60.00	60.00
20 tons old bridge reinforcing steel	60.00	25.00	20.00	15.00	10.00	25.00	30.00	60.00
15,500 sq.ft. waterproofing	0.10	0.09	0.10	0.12	0.14	0.11	0.11	0.15
600 lin.ft. 9x20-in. concrete curb	0.50	0.50	0.65	0.45	0.50	0.50	0.60	0.65
5600 sq.ft. 4-in. concrete sidewalk	0.15	0.12	0.12	0.10	0.15	0.12	0.14	0.15
516 lin.ft. concrete railing	4.00	3.50	3.50	2.00	8.00	2.00	3.50	4.00
8 light posts and brackets	40.00	40.00	40.00	40.00	60.00	20.00	25.00	50.00
1300 sq.yd. 6-in. concrete base	1.15	1.25	1.35	0.70	1.50	1.50	1.10	1.00
500 sq.yd. 4-in. concrete base	0.95	0.85	0.90	0.50	1.00	1.00	0.87	0.70
1300 sq.yd. brick pavement	2.00	1.80	1.35	1.25	1.75	3.00	1.00	1.50
500 sq.yd. brick pavement (relaid)	1.25	1.00	1.00	0.60	0.75	1.50	1.20	1.00
400 lin.ft. stone curb taken up and reset	0.15	0.40	0.25	0.25	0.20	0.25	0.60	0.05
50 lin.ft. 4-in. sewer pipe	0.15	0.15	0.13	0.25	0.15	0.20	0.12	0.20
200 lin.ft. 3-in. farm tile	0.10	0.05	0.05	0.02½	0.08	0.10	0.05	0.15
60 lin.ft. 2-in. gas pipe railing	0.80	0.50	0.50	0.75	0.15	0.75	0.20	0.80
100 lin.ft. 2-in. fibre conduit	0.30	0.30	0.20	0.15	0.25	0.25	0.05	0.25
1 old trestle bridge (to be paid to county)	50.00	100.00	1000.00	10.00	500.00	200.00	48.00	100.00
Extended Totals	$40,109	$40,520	$41,038	$41,854	$13,612	$45,119	$45,970	$47,712

Huss St. Bridge	A	B	C	D	E	F	G	H
1300 cu.yd. earth excavation	$0.73	$0.70	$0.50	$0.60	$0.40	$0.75	$1.25	$1.75
250 cu.yd. rock excavation	3.00	4.00	3.40	4.00	3.00	4.00	4.00	5.00
1700 cu.yd. earth fill	0.40	0.50	0.50	0.50	0.25	0.75	0.50	1.50
900 cu.yd. stone fill	1.25	1.50	1.80	1.00	0.40	1.00	2.00	2.00
800 cu.yd. concrete, Class A	7.00	6.00	7.30	7.40	8.44	9.50	8.00	8.50
675 cu.yd. concrete, Class B	9.00	9.50	10.00	10.25	9.44	11.00	12.00	14.50
30 tons new reinforcing steel	60.00	45.00	50.00	45.00	53.00	55.00	60.00	60.00
10 tons old bridge reinforcing steel	60.00	12.00	25.00	15.00	10.00	25.00	30.00	60.00
7500 sq.yd. waterproofing	0.10	0.09	0.12	0.12	0.14	0.11	0.11	0.15
330 lin.ft. 6x12-in. concrete curb	0.40	0.50	0.50	0.25	0.40	0.25	0.60	0.45
1155 sq.ft. 4-in. sidewalk	0.15	0.12	0.12	0.10	0.13	0.12	0.14	0.15
972 sq.yd. 6-in. concrete pavement	1.15	1.50	1.50	1.25	1.50	1.50	1.10	1.50
25 lin.ft. 4-in. sewer pipe	0.15	0.20	0.14	0.25	0.15	0.20	0.12	0.20
100 lin.ft. 3-in. farm tile	0.10	0.03	0.06	0.02½	0.08	0.10	0.05	0.15
40 lin.ft. 2-in. gas pipe railing	0.80	0.50	0.30	0.75	0.15	0.75	0.20	0.80
652 lin.ft. concrete railing	4.00	1.50	3.00	1.45	4.00	2.00	3.00	4.50
8 trolley posts	40.00	15.00	40.00	15.00	50.00	15.00	32.00	50.00
300 sq.yd. 4-in. concrete base	0.95	0.90	1.00	0.50	1.25	1.00	0.87	0.75
Extended Totals	$23,011	$20,625	$23,569	$21,436	$23,060	$25,348	$26,618	$33,378

Ella St. Bridge	A	B	C	D	E	F	I
1400 cu.yd. earth excavation	$0.73	$0.70	$0.50	$0.60	$0.47	$0.90	$0.75
100 cu.yd. rock excavation	3.00	5.00	4.00	4.50	4.00	4.00	4.00
500 cu.yd. earth fill	0.40	0.50	0.50	0.35	0.25	0.75	0.65
550 cu.yd. stone fill	1.10	1.50	1.90	1.25	0.40	1.00	2.75
600 cu.yd. concrete, Class A	7.50	7.00	8.00	8.45	8.19	9.50	7.75
450 cu.yd. concrete, Class B	9.50	10.00	13.00	14.00	10.19	11.50	11.00
18 tons new reinforcing steel	60.00	50.00	50.00	45.00	53.00	55.00	70.00
8 tons old bridge reinforcing steel	60.00	25.00	25.00	15.00	10.00	25.00	40.00
4300 sq.ft. waterproofing	0.10	0.09	0.15	0.12	0.12	0.11	0.12
290 lin.ft. 6x12-in. concrete curb	0.40	0.40	0.90	0.25	0.40	0.25	0.30
870 sq.ft. 4-in. sidewalk	0.15	0.12	0.12	0.10	0.13	0.12	0.12
485 sq.yd. 6-in. concrete pavement	1.25	1.50	1.50	1.25	1.50	1.50	1.02
25 lin.ft. 4-in. sewer pipe	0.15	0.20	0.14	0.25	0.15	0.20	0.25
60 lin.ft. 5-in farm tile	0.10	0.05	0.06	0.02½	0.08	0.10	0.15
40 lin.ft. 2-in. gas pipe railing	0.80	0.50	0.50	0.75	0.15	0.75	1.25
580 lin.ft. concrete and 3-in. railing	1.10	1.00	0.80	1.25	1.00	1.50	1.50
Extended Totals	$14,425	$14,298	$16,374	$16,497	$14,004	$16,728	$16,925

Dredging—Ottawa, Ont.—Bids will be received by R. C. Desrocbers, Secy. Dept. Pub. Wks., Ottawa, for the dredging required at Kincardine, Bruce Mines, Port Hope or Little Detroit, Ont.

✚**Wharf**—Ottawa, Ont.—(Official)—The Department of Public Works, Ottawa, has awarded the contract to WILLIAM R. FAWCETT, Temperance Vale, N. B., for constructing a wharf at Hatfield's Point.

Park Improvements—Port Arthur, Ont.—The city plans to spend $30,000 for park improvements.

✚**Dredging**—Port Burwell, Ont.—(Official)—The Department of Public Works, Ottawa, Ont., has awarded the contract to the C. S. BOONE DREDGING & CONSTRUCTION CO., 17½ Adelaide St. East, Toronto, Ont., for the dredging required at Port Burwell.

✚**Sluiceway**—Langenburg, Sask.—The Government Board of Highway Engineers has awarded the contract to the PARSONS CONSTRUCTION & ENGINEERING CO. LTD., Regina, Sash., for constructing a reinforced concrete sluiceway near Langenburg.

Wharf—Sydney, B. C.—The Victoria & Sydney Ry. Co. plans to construct a wharf to replace its present wharf at Sydney. Estimated cost, $10,000. F. Van Sant, Victoria, B. C., is Supt.

Wall—Victoria, B. C.—The Department of Public Works, Ottawa, Ont., will receive bids until July 27 for the construction of a concrete retaining wall at Songhees Point, Victoria, B. C. Estimated cost, $250,000. The work includes a large amount of dredging.

BUILDINGS

✚**Boston, Mass.**—The contract for building an apartment block at Commonwealth Ave. and Commonwealth Terrace, Brighton District, has been awarded to the McDONALD & JOSLIN CO., 161 Devonshire St. The building will be of brick and stone, 128x160 ft., four stories, estimated to cost $150,000. Berry & Davidson, 29 Central St., are the Archs.

Boston, Mass.—John C. Stafford, Arch. 15 Beacon St. is preparing plans for a three-story apartment, 42x127 ft. for Theodore B. Munroe, Tremont Bldg.

Boston, Mass.—Notman & Abrams, 11 Tetlow St., will build a four-story apartment 50x60 ft., on Worthington St. The estimated cost is $60,000.

Holyoke, Mass.—The directors of the Knights of Columbus have received bids for a new building, but have not yet awarded the contract. They are considering the bids of Daniel O'Connell's Sons, at $83,412 and Louis Carrean & Sons, at $74,977.

Hyde Park, Mass.—The Littlefield Trust Co. will build an $85,000 business block, including a theater. Harry M. Ramsey is the Arch.

Northampton, Mass.—The municipality will spend $110,000 in school improvements. An addition to one building will cost $60,000 and additions to two others will cost $25,000 each. W. H. Felker is Mayor.

Pittsfield, Mass.—McCormick & Joyce are having plans prepared for a three-story apartment block, 102x132 ft., to be erected on South St., at a cost of $75,000.

Pittsfield, Mass.—Plans are being prepared by J. MacA. Vance, Pittsfield, for an addition to the Dawes school. The estimated cost is $50,000.

✚**Springfield, Mass.**—Meekins, Packard & Wheaton, Hillman St., have awarded a contract to F. R. LEY & CO. for a six-story, 100x108 ft. building. B. Hammett Leahery is the Arch.

CONTRACT PRICE

Milltown, N. J.—Bids were received June 15, for sewers from (A) Schneider & Stelle, New Brunswick; (B) Morgan & Sebolt, New Brunswick; (C) Frank Puglia, Paterson; (D) Connecticut Engineering & Contracting Co., Norwich, Conn.; (E) John W. Heller, Newark; (F) Fillebrown-Taylor Co., 1 Broadway, New York, N. Y.; (G) Atlantic Contracting & Supply Co., Atlantic City; (H) Kelley-McFeeley & Co., Camden; (I) Sutton & Corson Co., Ocean City; (J) John J. Hart, Peekskill, N. Y.; (K) Joseph Johnson & Sons, New York, N. Y. Clyde Potts, 30 Church St., New York, N. Y., is Engr. The item bids are as follows:

SEWERS, MILLTOWN, N. J.

	A	B	C	D	E	F	G	H	I	J	K
14,520 lin.ft. 8-in. vitrified sewer 0 to 6 ft. deep	$0.49	$0.37	$0.43	$0.60	$0.45	$0.58	$0.53	$0.59	$0.64	$0.55	$0.70
10,855 lin.ft. 8-in. vitrified sewer 6 to 8 ft. deep	0.54	0.49	0.49	0.70	0.55	0.66	0.57	0.67	0.78	0.69	0.90
1580 lin.ft. 8-in. vitrified sewer 8 to 10 ft. deep	0.59	0.77	0.75	1.00	0.75	0.72	0.66	0.82	1.37	0.88	1.40
500 lin.ft. 8-in. vitrified sewer 10 to 12 ft. deep	0.90	0.97	1.75	1.40	1.25	1.00	0.81	1.12	1.70	1.12	1.75
200 lin.ft. 8-in. vitrified sewer 12 to 14 ft. deep	1.32	1.27	2.25	1.60	2.25	1.50	1.00	1.38	2.00	1.93	3.00
100 lin.ft. 8-in. vitrified sewer 14 feet deep	2.42	1.67	2.50	1.90	3.50	2.20	2.00	2.02	2.27	2.50	3.00
6390 lin.ft. 8-in. vitrified sewer 0 to 6 ft. deep	0.56½	0.46	0.50	0.70	0.55	0.65½	0.64	0.72	0.72	0.73	1.00
225 lin.ft. 8-in. vitrified sewer 6 to 8 ft. deep	0.63	0.61	0.65	0.85	0.75	0.77½	0.67	0.80	0.86	0.92	1.10
8-in. vitrified sewer 8 to 10 ft. deep	0.70	0.97	0.80	1.00	1.10	1.50	0.85	0.98	1.45	1.10	1.50
2450 lin.ft. 12-in. vitrified sewer 0 to 6 ft. deep	0.66½	0.60	0.60	0.80	0.65	0.85	0.70	0.85	0.80	0.80	1.20
3300 lin.ft. 12-in. vitrified sewer 6 to 8 ft. deep	0.73	0.77	0.75	0.95	0.90	0.92	0.85	0.96	0.95	1.00	1.40
2431 lin.ft. 15-in. vitrified sewer 0 to 6 ft. deep	0.85	0.80	0.80	0.85	1.00	0.94	0.90	1.04	1.05	0.98	1.60
15-in. vitrified sewer 6 to 8 ft. deep	0.94	1.10	1.10	1.05	1.25	1.50	0.95	1.15	1.20	1.20	2.00
15-in. vitrified sewer 8 to 10 ft. deep	1.06	1.65	1.50	1.25	1.60	1.95	1.10	1.50	1.79	1.49	3.00
100 house connections 5 ft. deep	0.25	0.30	0.50	1.05	0.30	1.00	0.25	0.40	0.30	0.25	1.00
Tile underdrain	0.30	0.45	0.25	0.15	0.25	0.32	0.30	0.30	0.25	0.25	0.50
2 M. ft. b.m. foundation lumber	48.00	75.00	50.00	50.00	40.00	52.00	60.00	55.00	60.00	45.00	40.00
5 M. ft. b.m. sheathing lumber	35.00	75.00	40.00	50.00	35.00	45.00	35.00	50.00	32.40	30.00	38.00
18 tons c.i. pipe	47.00	50.00	40.00	42.00	50.00	50.00	40.00	45.00	31.20	36.00	50.00
10 cu.yd. concrete Class A	12.00	10.00	7.00	7.50	8.00	6.75	8.00	10.00	6.35	8.00	7.00
10 cu.yd. concrete Class B	15.80	12.00	8.00	12.50	7.00	8.00	12.00	15.00	10.80	10.00	15.00
20 cu.yd. earth embankment	0.75	0.65	1.00	0.95	1.00	0.69	0.75	1.00	0.40	0.50	0.55
136 manholes	35.70	36.00	30.00	33.00	35.00	37.50	39.00	39.00	59.55	40.00	60.00
15 ft. extra depth of manholes	5.00	5.00	5.00	4.00	3.00	5.50	4.00	7.00	6.00	4.00	5.00
1620 lin.ft. 8-in. c.i. syphon	0.84	0.88	1.00	1.25	1.10	1.16	0.70	1.46	0.92	2.15	2.00
1620 lin.ft. 6-in. c.i. syphon	0.65½	0.72	0.80	1.10	1.00	1.07	0.58	1.24	0.72	2.00	1.80
1 pump station, lump sum	11,200	12,543½	12,200	7812.00	12,000	9534.25	14,000	14,038	12,270	12,300	12,000
9100 lin.ft. 12-in. c.i. force main	1.37	1.52	1.75	1.32	1.60	1.47	1.60	1.65	1.64	1.86	3.00
14-in. c.i. force main	1.64	1.87	3.50	1.65	2.00	1.75	1.90	2.0e	1.96	2.16	4.00
Extended totals	$57,175	$57,337	$59,990	$60,535	$61,913	$62,704	$63,932	$71,049	$72,936	$73,128	$97,177

Worcester, Mass.—John P. Casey has purchased a site at 94 Lincoln St., on which he will build a seven-story, brick apartment.

Pawtucket, R. I.—J. F. O'Malley, 75 Westminster St., Providence is preparing plans for a brick and concrete office and store building for the Broad St. Power Co. The estimated cost is $100,000.

Providence, R. I.—Bids were received by the Board of Contract and Supply for making alterations to the City Hall from Horton-Hemingway, $109,369; Norcross Bros. Co., $[illegible] 526; Gilbane Bldg. Co., $111,217; J. W. Bishop Co., $99,347; Connors Bros. Co., $84,830; Charles B. Maguire Co., $91,5[illegible] Noted June 18.

Providence, R. I.—Plans are being prepared for a school for the Mount Pleasant District, estimated to cost $100,0[illegible] Mayor Gainer is Chn. of the School Comn.

✚**Woonsocket, R. I.**—The contract for constructing the business block for James M. McCarthy has been awarded to the CRUISE & SMILEY CONSTRUCTION CO., Pawtucket, R. I. The building will be six stories, of brick and stone, 60x100 ft. McClintock & Craig, Springfield, Mass., are the Archs.

✚**New Haven, Conn.**—The National New Haven Bank has awarded a general contract to HOGGSON BROS., 7 East 44th St., New York, N. Y., for a two-story and basement, steel, brick and limestone building, costing $200,000. Theodore C. Yisscher, 299 Madison Ave., New York, N. Y., is the Arch.

✚**Buffalo, N. Y.**—The R. C. Church of the Assumption, Amhurst and Reservation Sts., has awarded a contract to CHARLES E. EVERETT, White Bldg., for a $175,000 church. Carl Schmidt, Prudential Bldg., is the Arch.

Buffalo, N. Y.—The St. Marks R. C. Church will erect a stone church at Woodward Ave. and Amherst St. to cost about $50,000.

✚**Jamestown, N. Y.**—The contract for erecting the First Baptist Church has been awarded to JAMESTOWN CONSTRUCTION CO. The estimated cost is $75,000.

Rochester, N. Y.—The Garfield Real Estate Co. will build a five-story and basement, 66x90 ft. addition to the Wilder Arcade Bldg., Main and Aqueduct Sts. The cost is estimated at $125,000. J. Foster Warner is the Arch.

Jersey City, N. J.—John T. Rowland, Arch., is preparing plans for the new Lincoln High School to be erected by the Board of Education. The cost is estimated at $450,000.

Newark, N. J.—The Parkway Realty Co. plans to build a 55x70 ft. brick apartment, costing $40,000. Edward V. Warren is the Arch.

CONTRACT PRICE.

Intercepting Sewer—Newark, N. J.—Bids were received by the Passaic Valley Sewerage Commissioners, June 23, for constructing part of Section 9 of the Main Intercepting Sewer, from (A) Oscar Daniels Co., Woolworth Bldg., New York, N. Y.; (B) Bruno & Petitti, Belleville, N. J.; (C) New York & New Jersey Construction Co., 30 East 42d St., New York, N. Y.; (D) Phoenix Construction Co., 41 Park Row, New York, N. Y.; (E) P. H. & J. Conlan, Newark; (F) Merrill-Ruckgaber Co., 50 Church St., New York; (G) Cauldwell-Wingate Co., 381 Fourth Ave., New York. The item bids were as follows:

INTERCEPTING SEWER, NEWARK, N. J.

Part of Section 9

	A	B	C	D	E	F	G
Excavation for 126-in. sewer, Venturi meter structures, conduits, etc.	$128,000	$153,000	$140,000	$110,975	$116,463	$71,000	$43,314
100 cu.yd. rock excavation	5.00	5.00	2 00	2.00	4.00	2.00	2.50
4200 cu.yd. concrete masonry	20.00	12.00	10.00	13.60	8.00	9.00	8.66
130,000 lb. steel	0.05	0.05	0.03	0.032	0.035	0.03	0.04
400 tons rip-rap	3.00	6.00	3.00	2.00	4.00	2.00	3.50
16 sq.yd. granite block paving	5.00	6.00	5.00	5.00	4.00	5.00	3.50
Extended totals	$220,280	$212,896	$187,380	$173,335	$156,677	$113,780	$86,592

Princeton, N. J.—The Board of Trustees of Princeton University has accepted the plans prepared by Klauder & Day, Archs., for the proposed dormitory building. The structure is estimated to cost $200,000.

+Vauxhall, N. J.—The Board of Education has awarded the contract for the erection of a new school to EDWARD M. WALDRON & CO. at $42,626. Noted Apr. 30.

+Boyertown, Penn.—The contract for erecting the stone bank building for the National Bank has been awarded to FINK & SEIDEL, Reading at about $40,000.

McKeesport, Penn.—Plans for the high school are being prepared by Vrydaugh & Wolf, Pittsburgh. The estimated cost is $200,000.

Reading, Penn.—H. L. Stevens & Co., 519 Hammond Bldg., Detroit, Mich., is preparing plans for a seven-story and basement hotel, 75x165 ft. for the Perry Square Hotel Co. The estimated cost is $450,000.

Ridley Park, Penn.—Plans are being prepared by Rankin, Kellogg & Crane, 1012 Walnut St., Philadelphia, for an edifice for Ridley Park Presbyterian Church. The estimated cost is $40,000.

+Wilmington, Del.—The contract for building the addition to Delaware Hospital has been awarded by the Board of Trustees to the A. S. REED & BRO. CO., 815 Shipley St., at about $60,000.

CONTRACT PRICE

+Waterworks Improvements—Moline, Ill.—Bids were received May 12 by the Board of Local Improvements for the improvement of the water system in the East End Water Main District, from (A) Public Service Construction Co., Omaha, Neb.; (B) Dunnegan & Masters, Shenandoah, Iowa; (C) E. R. Harding Co., Racine, Wis.; (D) Gray-Robinson Construction Co., Manitow, Wis.; (E) Moline Heating & Construction Co., Moline, Ill.; (F) T. C. BROOKS SONS, Jackson, Mich.; (awarded contract); (G) Dearborn Construction Co., Waterloo, Iowa. The item bids were as follows:

+Baltimore, Md.—The contract for erecting the four-story brick building at 214 North Charles St., for the Fidelity & Deposit Co. of Maryland, has been awarded to MORROW BROS., at about $40,000. Baldwin & Pennington are the Archs.

+Petersburg, Va.—The contract for constructing the five-story apartment on Sycamore Ave. for the Centre Hill Apartments, Inc., has been awarded to E. A. BROWN, Richmond, Va., at about $75,000.

Spartanburg, S. C.—The Spartanburg Hotel Co. will construct a hotel on the site of the Spartanburg Inn. J. B. Cleveland is interested. The estimated cost is $250,000.

+Bessemer, Ala.—The contract for erecting the five-story brick building at 19th St. and Third Ave. has been awarded to AGER & CLINE, Birmingham, at $67,000.

+Birmingham, Ala.—The contract for constructing an apartment at Highland Ave. and Cleveland St., for I. M. Barnett, has been awarded to the JOY-MARRIOTT CONSTRUCTION CO., at $40,000.

Birmingham, Ala.—The Birmingham Athletic Club will erect a 10-story brick building at Fifth Ave. and 20th St. Estimated cost, $350,000. Edward B. Anderson is Pres.

New Orleans, La.—John Minot, at $74,000, submitted the lowest bid for the construction of the combined police station and city criminal court.

Nashville, Tenn.—The Realty Construction Co. will build a seven-story office building.

Louisville, Ky.—Henry Wolters, Board of Trade Bldg., is preparing plans for a seven-story reinforced concrete office building to be erected by the Knights of Pythias, to cost about $100,000. Bids will be received about Aug. 1.

Alliance, Ohio—Plans have been prepared by L. W. Thomas, Arch., 303 Pythian Bldg., Cleveland, for the erection of a three-story 60x100-ft. city hall at Alliance. The estimated cost is $65,000.

WATERWORKS IMPROVEMENTS, MOLINE, ILL.

	A	B	C	D	E	F	G
12,170 lin.ft. 12-in. watermain	$1.75	$3.90	$1.90	$1.85	$1.78	$1.71	$1.81½
5600 lin.ft. 10-in. watermain	1.40	1.50	1.55	1.58	1.46	1.32	1.50
13,000 lin.ft. 8-in. watermain	1.18	1.20	1.20	1.20	1.21	1.10	1.13
33,800 lin.ft. 6-in. watermain	0.82	0.95	0.90	0.90	0.89	0.85	0.88
4300 lin.ft. 4-in. watermain	0.60	0.70	0.70	0.67	0.72	0.75	0.64
11 12-in. gate valves	42.50	45.00	45.00	43.00	40.00	35.00	40.00
12-in. gate valves	38.50	40.00	50.00	43.00	40.00	38.00	40.00
12-in. gate valves	40.50	38.25	47.00	41.00	40.00	39.00	40.00
6 18-in. gate valves	35.00	35.00	35.00	35.00	34.00	28.00	30.00
6 10-in. gate valves	32.00	30.00	38.00	35.00	34.00	38.00	30.00
6 10-in. gate valves	32.50	25.25	36.00	34.00	34.00	28.00	30.00
15 8-in. gate valves	24.50	25.00	23.00	23.50	22.00	20.00	21.00
15 8-in. gate valvee	22.00	20.00	28.00	24.00	22.00	22.00	81.00
15 8-in. gate valvss	21.50	17.15	24.00	23.00	22.00		21.00
44 6-in. gate valves	16.00	17.00	15.00	16.00	15.00	13.00	15.00
44 6-in. gate valves	13.00	12.00	19.00	16.50	15.00	15.00	15.00
44 6-in. gate valves	13.00	11.00	16.25	15.75	15.00	16.00	15.00
9 4-in. gate valves	9.50	14.00	10.00	9.50	9.50	10.00	9.00
9 4-in. gate valves	8.00	9.00	12.00	9.50	9.50	11.00	9.00
9 4-in. gate valves	7.50	7.30	11.00	8.50	9.50	11.00	9.00
85 concrete valve boxes	25.00	23.00	24.00	25.00	25.00	25.00	25.00
11 8-in. fire hydrants	52.50	50.00	50.00	52.00	52.00	38.00	50.00
11 8-in. fire hydrants	42.50	45.00	55.00	53.00	52.00	46.00	50.00
11 8-in. fire hydrants	50.00	38.50	52.00	50.00	52.00 52.00	48.00	50.00
126 6-in. fire hydrants	35.00	35.00	35.00	35.00	35.00	30.00	33.00
126 6-in. fire hydrants	32.00	30.00	39.00	36.00	35.00 35.00	32.00	33.00
126 6-in. fire hydran	32.00	26.40	36.00	34.50	35.00	34.00	33.00
5 4-in. fire hydrants	34.00	33.00	35.00	34.00	34.50 34.50	28.00	27.50
5 4-in. fire hydrants	32.00	28.00	38.00	35.00	34.50	30.00	27.50
5 4-in. fire hydrants	32.00	26.40	36.00	33.50	34.50	30.00	27.50
1 12x12x8x8-in. cross	25.00	25.00	27.00	27.00	23.30	18.00	19.10
1 12x12x6x6-in. cross	24.00	24.00	26.00	26.50	23.00	17.00	18.00
1 12x12x10x10-in. cross	26.00	26.00	28.00	27.00	24.00	20.00	20.20
3 12x12x12-in. tees	25.00	25.00	25.00	26.50	24.00	17.00	18.00
7 12x12x8-in. tees	21.00	20.00	24.00	24.00	22.00	16.00	16.60
14 12x12x6-in. tees	20.00	18.50	23.00	23.50	21.00	18.00	16.10
2 12-in.—45° bends	15.00	15.50	15.00	18.09	16.00	9.00	12.80
1 12-in. plug	3.00	2.50	3.00	3.00	3.00	2.00	2.50
2 10x10x10-in. tees	20.00	18.00	20.00	21.00	19.00	14.00	13.85
15 10x10x6-in. tees	17.00	15.00	17.00	19.00	18.00	12.00	12.35
1 10x10x6x6-in. cross	20.00	20.00	21.00	23.00	20.00	14.00	14.25
2 10x10x10-in. Y branches	20.00	20.00	22.00	23.00	21.00	16.00	15.20
1 10x10x6-in. Y branches	20.00	18.00	20.00	20.00	19.00	16.00	14.25
1 12-in. to 10-in. reducer	13.00	13.00	12.00	14.50	14.50	10.00	9.15
16 8x8x8-in. tees	14.50	12.00	15.00	14.50	15.00	11.00	10.30
21 8x8x6-in. tees	14.00	11.50	15.00	15.00	14.00	9.00	9.50
1 8x8x4-in. tees	13.50	12.00	15.00	14.00	15.00	10.00	8.95
4 8x8x8x8-in. crosses	18.00	18.00	20.00	21.00	19.00	13.00	13.00
2 8x8x6x6-in. crosses	18.00	15.00	19.00	19.00	18.00	12.00	11.40
1 12 to 8-in. reducer	12.00	11.00	12.00	12.50	12.50	9.00	8.10
3 8 to 6-in. reducer	7.50	8.00	8.00	8.50	8.00	6.00	5.00
3 8-in.—45° bends	8.00	7.50	10.00	10.00	9.50	6.00	5.25
1 6 to 8-in. increaser	7.25	7.50	6.00	8.50	8.50	6.00	5.25
10 8-in. plugs	2.00	2.00	2.50	2.50	2.00	1.00	1.35
92 6x6x6-in. tees	10.00	11.00	12.00	12.50	11.00	7.00	9.00
6 6x6x4-in. tees	9.50	10.80	11.00	11.00	10.00	7.00	7.75
2 6x6x6-in. Y branches	10.00	11.00	12.00	12.00	11.00	8.00	6.35
5 6x6x6x6-in. crosses	14.00	15.00	15.00	15.50	14.50	9.00	9.00
1 12 to 6-in. reducers	9.75	10.00	11.00	11.50	11.50	7.00	7.65
1 10 to 6-in. reducers	9.00	9.50	10.00	10.50	10.50	7.00	6.30
5 8 to 6-in. reducers	7.50	8.00	8.00	8.50	8.00	5.00	5.25
5 5 to 4-in. reducers	5.00	5.50	6.00	6.00	6.00	5.00	3.65
1 6 to 10-in. increaser	9.50	10.00	10.00	10.50	10.50	6.00	6.30
2 6-in.—45° bends	8.00	7.50	8.00	8.00	7.00	4.00	3.70
27 6-in. plugs	1.50	2.00	2.50	2.50	2.00	1.00	1.00
10 4x4x4-in. tees	6.50	7.00	9.00	8.00	7.50	5.00	5.80
1 10 to 4-in. reducer	7.50	7.50	8.00	8.50	8.50	7.00	5.70
2 4 to 6-in. increasers	6.50	8.00	8.00	8.50	8.00	5.00	3.05
5 4-in. plugs	1.00	1.00	1.00	1.50	1.50	1.00	0.75
Special fittings—not listed	0.06	0.05	0.60	0.05½	0.03½	0.03½	0.04
2000 cu yd. rock excavation	3.50	2.50	3.50	3.00	30.0	3.00	2.50
2000 cu.yd. earth backfill	0.40	0.50	0.90	0.50	0.60	0.50	0.50
75 sq.yd. pavement to replace	2.50	2.00	2.50	2.50	3.00	2.00	2.50
Extended totals	**$94,914**	**$100,424**	**$102,237**	**$100,246**	**$98,397**	**$92,631**	**$94,882**

✚**Canton, Ohio**—The contract for the erection of the station on East Market St., for the Pennsylvania R.R. Co., has been awarded to the W. F. TRIMBLE CONSTRUCTION CO., Pittsburgh, Penn. The estimated cost is $65,000.

✚**Cleveland, Ohio**—The general contract for the erection of the two-story clubhouse, 50x300 ft., at Shaker Heights, has been awarded to the WALSH CONSTRUCTION CO., Citizens Bldg., Cleveland, Ohio. The estimated cost is $50,000.

✚The general contract for the erection of the mercantile building for the Tennis Euclid Co. has beeen awarded to the NATIONAL CONCRETE FIREPROOFING CO., 1315 Citizens Bldg., Cleveland. The estimated cost is $145,000.

Plans are being prepared by Fulton & Taylor, Archs., 704 Permanent Bldg., Cleveland, Ohio, for the erection of a five-story and basement, 90x83-ft. store building for M. D. Shanman. The estimated cost is $100,000.

✚**Cleveland, Ohio**—The general contract for the erection of the 8- and 10-story mercantile building to be erected for the William Bingham Co., has been awarded to the CROWELL-LUNDLOFF-LITTLE CO., 1951 East 57th St., Cleveland. The estimated cost is $1,000,000. Noted June 11.

✚**Columbus, Ohio**—(Official)—The contract for the erection of the dormitory at the Institution for Feebleminded has been awarded to the DAWSON CONSTRUCTION CO., Pittsburgh, Penn., at $57,285. Noted June 11.

✚**Gallipolis, Ohio**—(Official)—The contract for the erection of the dormitory at the Ohio Hospital for Epileptics has been awarded to CHARLES P. KIRCHER, Athens, Ohio, at $61,915. Noted June 11.

✚**Hamilton, Ohio**—The contract for the erection of the high school at Hamilton, has been awarded to the ROCHE BRUNER CONSTRUCTION CO., Cincinnati, Ohio at $213,894.

Kent, Ohio—Bids will be received until noon, July 18, by John A. McDowell, Secy. Bd. of Trustees, Kent State Normal School, for the erection of an agricultural and training building at Kent.

Beech Grove, Ind.—Bids will be received until July 14, by H. E. Dodd, Chn., Bd. of Education, Beech Grove, for the erection of a two-story and basement school. The estimated cost is $50,000.

Indianapolis, Ind.—Plans are being prepared by Paul Cret, Arch. Perry Bldg., and Zantsinger, Borie & Medary, Asso, Archs., 139 South 15th St., Philadelphia, for the erection of a two-story and basement library. The estimated cost is $50,000.

Joliet, Ill.—Bids will be received until 1 p.m., July 15, by J. F. Skeel, Clk., Bd. of Inspectors of the City Schools, for the erection of a school at Joliet. John D. Chubb is the Arch., 109 North Dearborn St., Chicago, Ill.

Detroit, Mich.—Bids will be received about July 21 by Malcomson & Higginbotham, Archs., 404 Moffat Bldg., for the erection of a three-story and basement high school at Detroit.

Plans are being prepared by C. Howard Crane, Arch., 2325 Dime Bank Bldg., Detroit, for the erection of a one- and two-story and basement hospital for E. H. Hill, 109 North Dearborn St., Chicago, Ill. The estimated cost is $100,000.

✚**Kalamazoo, Mich.**—The general contract for the erection of the three-story and basement store building for S. S. Kresge Co. has been awarded to A. W. LARGE, Lawrence, Mass., at $40,000. Noted May 14.

✚**Chicago, Ill.**—The general contract for the erecti of the 16-story office building at 131 Madison St., has en awarded to the GEORGE A. FULLER CO., 140 South D arborn St. The estimated cost is $1,000,000. Noted Jan. 29.

Quincy, Ill.—Bids will be received until 2 p.m., July 2 by J. B. Dibelka, Arch., 29 South La Salle St., Chicago, Ill., for the erection of an armory at Quincy.

✚**Riverside, Iowa**—The contract for the erection of he Riverside school at North Riverside, has been awarde to COOMER & SMALL, at $32,470. Other bidders were F. J. Sulzbach, $34,500; C. C. Egley, $35,873; Alfred Johnson, $ 2,- 919; F. X. Babue, $32,660; C. Johnson, $34,377. Beuttler & Arnold, Security Bldg., are the Archs.

Wichita, Kan.—Bids will soon be received for the erection of a three-story and basement Y. W. C. A. building. The estimated cost is $50,000.

Cameron, Mo.—Rose & Peterson, Archs., Kansas City, K., have completed plans for the erection of a school at Cameron. The estimated cost is $55,000.

✚**Kirksville, Mo.**—Contracts for the erection of the thr story high school have been awarded as follows: Gene contract, L. W. DUMAS CONSTRUCTION CO., Columbi structural iron, ILLINOIS STEEL & BRIDGE CO., Kans City, Mo.; masonry, J. J. HOFFMAN, Milan, Mo.

✚**Springfield, Mo.**—Contracts for the erection of the tw story and basement school have been awarded as follows: General contract, PANLY & IPSEN, 210 North Campbell St structural iron, BANNER IRON WORKS, St. Louis, Mo masonry, GEORGE C. SHARP, 421 Winfield St.; cut stone NESBIT & HIRSCHBERG.

✚Contracts for the erection of the 11-story office building for the Keet Building Co. have been awarded as follows: General contract, DUMAS CONSTRUCTION CO.; structural iron to CHRISTOPHER & SIMPSON, St. Louis; masonry, J. J. HOFFMAN.

St. Louis, Mo.—The Mound City Photoplay Co., recently incorporated has had plans prepared for the erection of a three-story theater and office building at 117 North Sixth St., St. Louis. The estimated cost is $40,000. Haussler & Huff, 514 Roe Bldg. are the Archs.

✚**Dallas, Tex.**—See item under Miscellaneous: Terminal—Dallas, Tex

✚**Falfurrias, Tex.**—The contract for the erection of the county court house at Falfurrias has been awarded to WESTLAKE & MIZZELL, San Antonio, at $54,490. Noted Mar. 26.

Tulsa, Okla.—Bids will be received until July 22 for the erection of a five-story Y. M. C. A. building.

✚**Ogden, Utah**—The contract for the erection of the theatre on Hudson Ave. has beeen awarded to WILLIAM A. LARKINS at $75,805. Noted May 14.

✚**Kingman, Ariz.**—The contract for the erection of the Mohave County court house has bee awarded to LOFTUS COLLAMORE & SON, Little Rock, Ark. Noted July 2.

✚**Seattle, Wash.**—The contract for the erection of the four-story hotel at Yesler Way and Post St., for the Yesler Estate, has been awarded to HANS PEDERSON, Madison Block, Seattle.

The lowest bidder for the erection of the King County courthouse was the Puget Sound Bridge & Dredge Co., at $806,973.

Contracts for Dual System of Rapid Transit

FOR OPERATION BY NEW YORK MUNICIPAL RAILWAY CORPORATION

Broadway-Fifty-ninth St. Subway—(In Manhattan). Route No. 5

Section	Limits	Contractor	Contract executed	Amount of Contract	Item Bids Published in Engineering News
1	Morris to Dey St.	F. L. Cranford, 177 Montague St., Brooklyn	Sept. 27, 1912	$1,222,269.20	Sept. 19, 1912
1-A	Dey St. to Park Pl.	F. L. Cranford, 177 Montague St., Brooklyn	Sept. 27, 1912	982,740.70	Sept. 19, 1912
2	Park Pl. to Walker St.	Degnon Contracting Co., 30 East 42nd St., N. Y.	Feb. 6, 1912	2,355,828.50	Feb. 1, 1912
2-A	Walker St. to Howard St.	O'Rourke Engineering Contracting Co., 345 5th Ave., N. Y.	July 17, 1912	912,351.60	April 11, 1912
3	Howard St. to Bleecker St.	Underpinning and Foundation Co., 290 Broadway, N. Y.	Jan. 19, 1912	2,295,096.50	Jan. 18, 1912
4	Bleecker St. to Union Sq.	Dock Contractor Co., 2 Rector St., N. Y.	Aug. 19, 1913	2,578,078.00	July 10, 1913
		Broadway (Manhattan)—Fourth Ave. (Brooklyn)—Routes Nos. 4 and 36			
1	Union Sq. to 26th St.	E. E. Smith Contracting Co., 101 Park Ave., N. Y.	Aug. 1, 1913	$2,056,702.50	Aug. 7, 1913
2	Broadway, 26th St. to 38th St.	United States Realty & Investing Co., 111 Broadway, N. Y.		$2,657,004.00	May 7, 1914
Total				$15,060,061.00	
		Canal St. Manhattan—Route twenty			
2	In Canal St. from Bowery to Broadway	Underpinning & Foundation Co., 290 Broadway, N.Y.		$1,822,999.00	May 21, 1914
		Fourth Avenue Subway—(In Brooklyn)			
Six sections, extending from Manhattan Bridge through Flatbush Ave. extension, Fulton St., Ashland Pl. and Fourth Ave. to 43rd St. Contracts let in May, 1908; approved by Board of Estimate and Apportionment in October, 1909, and work begun in November, 1909				$16,014,388.26	
		Fourth Ave. Extension Subway—Route No. 11-B—(In Brooklyn)			
1	43rd St. to 61st St.	Degnon Contracting Co., 30 East 42nd St., N. Y.	Oct. 4, 1912	$1,930,258.50	Sept. 26, 1912
2	61st St. to 89th St.	Degnon Contracting Co., 30 East 42nd St., N. Y.	Oct. 4, 1912	1,904,171.25	Sept. 26, 1912
Total				$3,834,429.75	
Total—Fourth Ave. line and extension				19,848,818.01	
		Brooklyn Loop Line (Centre Street)—Route No. 9-O—(In Manhattan)			
Extending from the Manhattan terminus of the Brooklyn Bridge under Centre St. and Delancey St. extension to Williamsburg Bridge, with spur at Canal St. to the Manhattan Bridge (including real estate, but not engineering, etc.)				$12,767,732.07	
		New Utrecht Ave. Elevated Line—Route No. 39—(In Brooklyn)			
2	39th St. to Coney Is.	Post & McCord, Inc., 101 Park Ave., N. Y.	Dec. 31, 1913	$1,672,190.00	Dec. 4, 1913
		Route No. 33—In Manhattan			
1	Trinity Place and Warren St. to South St.	Booth & Flinn Ltd., 3785 Broadway, N. Y.		$2,059,182.00	April 23, 1914
2	Montague Tunnel	*Booth & Flinn Ltd., and O'Rourke Engineering & Contracting Co.		$5,974,869.00	June 4, 1914

Tacoma, Wash.—Lundberg & Mahon, Archs., Provident Bldg., will receive bids about July 15, for the erection of the theater for William Virges. The estimated cost is $60,000.

Salem Ore.—The lowest bid for the erection of additions to buildings at the University was submitted by W. O. Heckatt, at $47,990. W. C. Salem is State Arch.

Berkeley, Calif.—Bids will be received until noon, July 20, by W. F. McClure, State Engr., Capitol Bldg., Sacramento, for the erection of a gymnasium building at Berkeley.

Oakland, Calif.—Frederick D. Boese, Arch., 45 Kearney St., San Francisco, has completed plans for the erection of a building for the Concordia College. The estimated cost is $40,000.

Sacramento, Calif.—Plans are being prepared by L. G. Burgren, Arch., Holbrook Bldg., for the erection of an eight-story and basement Class A hotel. The estimated cost is $225,000.

The Sacramento Lodge of Eagles will erect a lodge building. The estimated cost is $100,000.

San Francisco, Calif.—Edward T. Foulkes, Arch., Crocker Bldg., has completed plans for the erection of an exhibit building for the Canadian Pacific R.R. at the exposition.

Edward T. Foulkes, Arch., Crocker Bldg., is preparing plans for a number of concession buildings, which will include the "Creation," the 'Monitor and the Merrimac," "Vicksburg" and "Narea Palast."

Plans are being prepared by Edward G. Garden, Arch., Phelan Bldg., for the erection of a frame and plaster building at the Exposition for the Sperry Flour Co. The estimated cost is $100,000.

Montreal, Que.—Plans are being prepared by Marius Dufresne, Ontario St., Maisonneuve, for the erection of a fire and police station for the Town Council of Maisonneuve. The estimated cost is $70,000.

Niagara Falls, Ont.—Plans are being prepared by Bond & Smith, Archs., 15 Wilton Ave., for the erection of a store and office building at Queen and Ontario Sts., for the I. O. O. F.

Toronto, Ont.—A. A. Barthelmes, Arch., and Frederick Courtemanche, both of Toronto will erect a 10-story office building at Terauley and Albert Sts., Toronto. The estimated cost is $300,000.

Toronto, Ont.—Bids will be received until 4 p.m., July 13, by R. C. Desrochers, Secy., Dept. of Public Works, for the erection of postal station E.

Winnipeg, Man.—The contract for the erection of an addition to St. Boniface hospital, has been awarded to J. H. TRAMBLEY CO., LTD., Winnipeg. The estimated cost is $300,000.

Regina, Sask.—Bids will soon be received by Tripp & Rowley, Archs., 51 Canada Life Bldg., for the erection of a three-story theater, 50x125 ft., for W. Milne., 2267 Smith St. The estimated cost is $65,000.

Red Deer, Alta—Bids will be received until 4 p.m., July 15, by R. C. Desrochers, Secy., Dept. of Pub. Wks., Ottawa, Ont., for the erection of a public building at Red Deer, Alta.

Contracts for Dual System of Rapid Transit—Continued

FOR OPERATION BY INTERBOROUGH RAPID TRANSIT CO.

Seventh Ave.-Lexington Ave. Subway—Routes Nos. 5, 19 and 22, 43, 16, 4 and 38, 9 and 48					
*6	26th St. to 40th St.	Bradley Contracting Co., 1 Madison Ave., N. Y.	July 21, 1911	$3,634,213.50	Nov. 3, 1910
* Work stopped on April 26, 1912, on account of change in routing of this branch.					
Lexington Avenue Branch—Route No. 5					
7	43d St. to 53d St.	Rapid Transit Subway Construction Co., 165 Broadway, New York		$1,915,164.00	June 25, 1914
8	53rd St. to 67th St.	Bradley Contracting Co , 1 Madison Ave., N. Y.	July 21, 1911	$3,369,484.20	Nov. 3, 1910
9	67th St. to 79th St.	P. McGovern & Co., 1 Madison Ave., N. Y.	Feb. 13, 1912	1,961,997.00	Dec. 14, 1911
10	79th St. to 93rd St.	Bradley Contracting Co., 1 Madison Ave., N. Y.	July 21, 1911	3,253,072.80	Nov. 3, 1910
11	93rd St. to 106th St.	Bradley Contracting Co., 1 Madison Ave., N. Y.	July 21, 1911	3,132,195.05	Nov. 3, 1910
12	106th St. to 118th St.	Oscar Daniels Co., Woolworth Bldg., N. Y.	Sept. 3, 1911	2,825,740.74	Nov. 3, 1910
13	118th St. to 129th St.	Bradley Contracting Co., 1 Madison Ave., N. Y. (Assigned to McMullen, Snare & Triest, Inc.)	Nov. 17, 1911	4,071,416.50	Nov. 3, 1911
14	129th St. to 135th St.	Arthur McMullen & Olaf Hoff, 149 Broadway, N. Y.	July 23, 1912	3,889,775.05	June 16, 1912
15	135th St. to 157th St.	Hagerty-Drummond Co., 48 Park Row, N. Y. (Assigned to Rogers & Hagerty)	Nov. 17, 1911	3,820,129.75	Nov. 3, 1910
Total				$26,323,811.09	
Southern Boulevard Branch—Routes Nos. 19 and 22 (In the Bronx)					
1	138th St. to 147th St.	John F. Stevens Construction Co., 55 Wall St., N. Y. (Assigned Oct. 23, 1913 to Richard Carvel Co., Inc., 401 West 59th St., N. Y.)	Oct. 22, 1912	$2,253,281.75	Sept. 26, 1912
1-A	147th St. to Bancroft St.	Rodgers & Hagerty, E. 152nd St. and Harlem River, N. Y.		$2,253,159.25	Dec. 11, 1913
Total				$4,506,441.00	
Jerome Avenue Branch—Route No. 16—(In the Bronx)					
1	157th St. to 182nd St.	Oscar Daniels Co., Woolworth Bldg., N. Y.	Dec. 31, 1913	$1,077,978.00	Dec. 11, 1913
2	182nd St. to Woodlawn Road	Cooper & Evans, 220 Broadway, N. Y.		$1,076,831.00	Feb. 19, 1914
Seventh Avenue-Lexington Ave.—Routes Nos. 4 and 38					
1	Battery Park to Greenwich and Vesey St.	Rapid Transit Subway Construction Co., 165 Broadway, N. Y.		$2,120,000.00	April 30, 1914
1-A	Connection from 7th Ave. Subway to present subway	Rapid Transit Subway Construction Co., 165 Broadway, N. Y.		$474,244.00	June 18, 1914
2	Vesey to Beach St.	Degnon Contracting Co., 30 East 42nd St., N. Y.	March, 1914	$3,059,522.00	Dec. 11, 1913
3	Beach St. to Commerce St.	Degnon Contracting Co., 30 East 42nd St., N. Y.	Dec. 31, 1913	$2,185,063.50	Nov. 20, 1913
4	Commerce St. to 16th St.	United States Realty & Improvement Co., 111 Broadway, N. Y.	Mar. 6, 1913	$1,837,726.00	Mar. 12, 1914
5	16th St. to 30th St.	Canavan Bros., N. Y.	Dec. 31, 1913	2,401,306.75	Nov. 20, 1913
6	30th St. to 43rd St.	Rapid Transit Subway Construction Co., 165 Broadway, N. Y.	Dec. 31, 1913	2,292,000.00	Jan. 8, 1914
6-A	43rd St. to 45th St. Times Sq.	Holbrook Cabot & Rollins Corp., 331 Madison Ave. N. Y.		$421,566.00	May 28,1914
Total				$14,790,428.25	
White Plains Road Line—Route No. 18—(In the Bronx)					
1	180th St. to Burke Ave.	Oscar Daniels Co., Woolworth Bldg., N. Y.	March 16, 1914	$914,400.00	Feb. 19, 1914
2	Burke Ave. to 241st St.	Alfred P. Roth, Broad St., N. Y.	Dec. 31, 1913	$958,484.00	Dec. 4, 1913
†Woodside, Astoria and Corona Line—Routes Nos. 36 and 37—(In Queens)					
1	Queensboro Bridge Plaza	Snare & Triest, 143 Liberty St., N. Y.	Oct. 7, 1913	$884,859.00	Aug. 28, 1913
2	Astoria Line	Cooper & Evans, 220 Broadway, N. Y.	Mar. 11, 1913	860,743.50	Feb. 13, 1913
3	Corona Line	E. E. Smith Contracting Co., 101 Park Ave., N. Y.	Mar. 11, 1913	2,063,588.00	Feb. 13, 1913
Total				$3,809,190.50	
Steinway Tunnel Extension—Route No. 50—(In Queens)					
	Van Alst Ave. to Queensboro Bridge	Degnon Contracting Co., 30 East 42nd St., N. Y.	Dec. 1, 1913	$557,856.50	
Route forty-eight					
3	Clark Tunnel	*Booth & Flinn Ltd., and O'Rourke Engineering & Contracting Co.		$6,469,916.00	June 4, 1919
Lutheran Cemetery and Myrtle Ave. Connection					
2		Phoenix Bridge Co., 49 William St., N. Y.		$707,661.00	
		F. W. Burnham, 30 East 42nd St., N. Y.	Mar., 1914	$143,225.00	
Reconstruction Steinway Tunnel-Route 26					
	42nd and Lexington Ave., under East River to Jackson and Alst Ave., L. I. City	Rapid Transit Subway Construction Co., 165 Broadway, N. Y.	Feb. 17, 1914	$383,911.00	Feb. 26, 1914
Connection with Brighton Beach Line—Route 12					
1	St. Felix St. and Ashland Pl. to Hanson Pl.	Cranford Co., 190 Montague St., Brooklyn		$2,195,296.00	June 25, 1914
1-A	In Flatbush Ave., between St. Marks Ave., Prospect Park Plaza	Cranford Co., 190 Montague St., Brooklyn		$2,225,519.25	April 9, 1914

*Awarded two contracts jointly.
† Trackage rights also to New York Municipal Railway Corporation.

Contracts to Be Let

Bids received until July 28, 1914.

Barge Canal Improvements

STATE OF NEW YORK
OFFICE OF SUPERINTENDENT OF PUBLIC WORKS
Albany, June 29th, 1914.

NOTICE TO CONTRACTORS:—

Sealed proposals will be received by the undersigned at his office in the Capitol at Albany, N. Y., until twelve o'clock noon of Tuesday, July 28th, 1914, at which place and hour they will be publicly opened and read, for improving the New York State canals pursuant to the provisions of Chapter 147 of the Laws of 1903, and of the amendments thereto, as follows:

—1—

CONTRACT NO. 119.
Erie Canal—Section 2.

For furnishing and driving a quantity of steel sheet piling, extending the concrete apron and performing all incidental work connected therewith at Movable Dam Five at Rotterdam, N. Y.

Sheets 1 and 2.

—2—

CONTRACT NO. 120.
Erie Canal—Sections 2 and 3.

Reinforcement of the superstructures of the following seven movable dams over the Mohawk River:

Dam 5 at Rotterdam, Station 1662 + 45, Erie canal.
Dam 6 at Cranesville, Station 1987 + 79, Erie canal.
Dam 7 at Amsterdam, Station 2201 + 46, Erie canal.
Dam 8 at Tribes Hill, Station 2443 + 17, Erie canal.
Dam 9 at Yosts, Station 2954 + 64, Erie canal.
Dam 10 at Canajoharie, Station 3370 + 50, Erie canal.
Dam 11 at Fort Plain, Station 3553 + 85, Erie canal.

Sheets 1 to 15 inclusive.

Plans may be seen and detailed specifications, engineer's estimate of quantities, proposal blanks, form of contract and bonds required and other information for proposers may be had at the office of the Superintendent of Public Works at Albany, N. Y., at the office of the Assistant Superintendent of Public Works for the Middle Division at Syracuse, N. Y., at the office of the Assistant Superintendent of Public Works for the Western Division at Rochester, N. Y., and at the canal office, Spaulding's Exchange, Buffalo, N. Y.

Copies of detailed plans or drawings may be obtained from the State Engineer and Surveyor at Albany, N. Y., upon payment to him of the cost of producing them.

Monthly estimates will be paid of ninety per centum (90 per cent.) of the work done at the contract price. Every proposal for said work must be accompanied by a money deposit in the form of a draft or certified check upon some good banking institution in the City of Albany or New York, issued by a national or State bank in good credit within the state and payable at sight to the Superintendent of Public Works for five per centum (5 per cent.) of the amount of the proposal.

The person whose proposal shall be accepted will be required to execute a contract and furnish bonds within ten days from the date of notice of award delivered to him or them in person or mailed to the address given in the proposal.

Upon execution of the contract and approval of bonds, the certified check or draft will be returned to the proposer unless the same shall have been presented for collection prior to such time, in which case the amount of the deposit will be refunded by the Superintendent of Public Works.

The deposits of bidders other than the one to whom the award of contract shall be made will be returned immediately after the award has been made.

The amount of bond required for faithful performance will be ten per centum (10 per cent.) of the amount of the estimated cost of the work according to the contract price, and an additional bond, known as the labor bond, in the sum of ten per centum (10 per cent.) of the amount of the estimated cost of the work according to the contract price, will be required as security that the contractor will pay in full at least once in each month all laborers employed by him upon the work specified to be done in the contract.

In the event that more than one surety company is offered as surety on said bonds, co-insurance only will be accepted.

Each proposal must be addressed to the Superintendent of Public Works, Albany, N. Y., and must be endorsed on the envelope with the name of the construction for which the proposal is made.

Award, if made, will be made to the person or persons whose proposal shall be lowest in cost to the State for doing the work, and which shall comply with all provisions required to render it formal. Before any award shall be made the lowest bidder will be required to satisfy the Superintendent of Public Works of his ability to provide suitable equipment and materials for the proper performance of the work.

The right is reserved to reject all proposals and readvertise and award the contract in the regular manner if, in the judgment of the undersigned, the interests of the State will be enhanced thereby.

DUNCAN W. PECK,
Superintendent of Public Works.

Bids received until July 20, 1914.

Sanitary Sewer, Special Manholes, Combined Sterilizing and Pumping Plant

Tarentum, Pa., June 27, 1914.

The Tarentum Borough Council will receive bids for the construction of approximately 4,000 ft. of 12 inch sanitary sewer ranging in depth from 3 ft. to 26 ft. Also 15 special manholes and a combined sterilizing and pumping plant, as per the plans drawn by Leo Hudson, Consulting Engineer, 1210 House Bldg., Pittsburgh, Pa., up until July 20, 1914, at 7 o'clock P.M. The bids will be received on one or all of the three parts of the contracts, viz.: Part I. Sewer and manholes. Part II. Structural work and treating plant with necessary piping, valves and mechanical equipment exclusive of the pumps and motors with their regulating devices. Part III. Motor driven centrifugal pumps. The motor driven centrifugal pumps may be bid separately, but completely installed by the firm furnishing said equipment on foundation prepared by the Borough. Each proposal is to be presented sealed and addressed to Mr. W. A. Gibson, Borough Secretary, and plainly marked on the lower left hand corner "Proposal for sanitary sewer and manholes" or proposal for any part or parts bid upon. In the upper lefthand corner the name of the firm bidding is to be plainly written. Each proposal is to have enclosed a certified check or bidders' bond in amount equal to five (5) percent. of the bid guaranteeing the good faith of the bidder. The successful bidder will be required to give bond for one hundred (100) per cent. of his bid for the faithful performance of the work. Plans and specifications may be obtained from the engineer.

Council reserves the right to reject any or all bids.

W. F. DENNY, President of Council.
W. A. GIBSON, Borough Secretary.

LEO HUDSON, Consulting Engineer,
1210 House Bldg.,
Pittsburgh, Pa.

Contractors

BIDS OPENED JULY 24, 1914,

for the construction of Section No. 5 of Routes Nos. 4 and 36, a part of the Broadway-Fourth Avenue subway.

A two-track railroad in the Borough of Manhattan, connecting the Broadway subway with the Queensboro bridge and extending from Seventh Avenue to Fifth Avenue, where the two tracks diverge, one continuing through 59th and the other through 60th Street to Second Avenue.

Write or call concerning plans, form of contract and specifications.

PUBLIC SERVICE COMMISSION FOR THE FIRST DISTRICT
154 Nassau Street New York City.